

Memorandum

Date:

July 31, 2013

To:

Ron Beckerdite

Service Center Director, Western Service Area

From:

Antry Richards

Manager, San Francisco Airport Traffic Control Tower

Subject: **INFORMATION**: Certification Statement

Aircraft Accident, AAR214

San Francisco, CA, July 06, 2013

I certify that air traffic aircraft accident package, SFO-ATCT-0027, has been reviewed and is complete.

AIRCRAFT ACCIDENT PACKAGE

SFO-ATCT-0027

AAR214, B772

July 06, 2013, 1828 UTC

DESTROY: January 6, 2016

SECTION 1.
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SECTION 2.

FAA Form 8020-6, Report of Aircraft Accident, and FAA Form(s) 8020-6-1, Report of Aircraft Accident (Continuation Sheet)

FAA Form 8020-6. Report of Aircraft Accident

	AL AVIATION AD	NSPORTATION MINISTRATION	1	Report Date:	July 31, 2013		Report Number SFO-A	er: FCT-0027
REPORT	OF AIRCRA	AFT ACCI	DENT	Name of Reporti		isco ATCT (SFO)		
Aircraft Identification	and Type:	2. Date/Ti	me of Accident (C	GMT):	3. Location of Acc	ident:		
R214, B772		July 06, 20	013; 1828 UTC		San Francisco, CA	, On airport, at appr	oach end runw	ay 28L.
Vature of Accident: R214 crashed on lan	ding runway 28L.			5. Type of Flight: RKSI to KSFO - I	FR Flight Plan			
Nan	ne	Position		Address (City and State)	Uninjured	Injured	Fatality	Unknow
Lee Kang Kuk	Pilo	t	Seoul, Kor	rea,	X			
Lee Jungmin	Pilot	ť	Seoul, Kor	rea,	X			
Lee Jung Joo	Pilot	t	Seoul, Kor	rea,	X			
Bong Dongwon	First	t Officer	Seoul, Kor	rca,		x		
Unknown	Flig	ht Attendant	Unknown			X		
Unknown	Flig	ht Attendant	Unknown			X		
assenger Data: (If a juries and other informa	vailable, list names, address ation on continuation sheet.)	es, extent of	477.000000	per Aboard	Number Uninjured 106	Number Injured 182	10000	umber atalities
Aircraft Damage:				9. Property Damage	0.9975365			35%
stroyed				Unknown				
Donart lust Bria	r to Accident:							
San Francisco M					ne zero statute miles, few	clouds one thousand		ime 7/6/2013 1756 UTC
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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

REPORT NO.

July 10, 2013

SFO-ATCT-0027

NAME OF REPORTING FACILITY

Oakland ARTCC (ZOA)

14. CHRONOLOGICAL SUMMARY OF FLIGHT

July 06, 2013

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME UNLESS OTHERWISE SPECIFIED

- 1733 AAR214 checked on Oakland Center sector 36's frequency at FL390 and was issued a beacon code of 4166.
- 1738 AAR214 was radar identified at VESPA Waypoint.
- 1740 AAR214 was cleared to San Francisco via Point Reyes and the Golden Gate Arrival.
- 1755 AAR214 was issued a clearance to descend at pilot's discretion to maintain FL240.
- 1756 AAR214 reported leaving FL390 for FL240.
- 1759 AAR214 was instructed to contact Oakland Center on 125.85.
- 1800 AAR214 checked on Oakland Center sector 41's frequency, 125.85, and was instructed to cross LOZIT intersection at and maintain 11,000 feet and also issued the local altimeter of 29.80.
- 1810 AAR214 was instructed to contact Northern California TRACON on 133.95.

No More Follows

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DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE

REPORT NO

SFO-ATCT-0027

NAME OF REPORTING FACILITY

July 15, 2013

Northern California TRACON (NCT)

14 CHRONOLOGICAL SUMMARY OF FLIGHT

July 06, 2013

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME UNLESS OTHERWISE SPECIFIED

- 1811 AAR214 was handed off from Oakland ARTCC to Norcal Approach and was issued direct to the SFO VOR and then issued a heading 140 vector for a visual approach to runway 28 left at San Francisco Airport.
- 1813 AAR214 was told to reduce speed to 210 knots. The pilot acknowledged the instruction.
- 1816 AAR214 was issued a descent to 9,000 and frequency changed to approach on 135.65. The pilot acknowledged the instructions but read back the frequency as 125.65.
- 1817 The controller corrected the read back error and AAR214 acknowledged the correct frequency. AAR214 checked on with the next sector and was issued a caution wake turbulence advisory and was told he would be following a heavy B777. AAR214 acknowledged the information.
- 1819 AAR214 was issued a descent to 6,000 and a left turn heading 100. AAR214 acknowledged the instructions.
- 1820 AAR214 was issued a descent to 4,000 and a left turn heading 030. The pilot acknowledged the instructions.
- 1821 The controller pointed out the airport at nine to ten o'clock and 17 miles and asked AAR214 if the airport was in sight. AAR214 reported the runway in sight and was cleared for a visual approach to runway 28 left by the controller.
- 1822 AAR214 acknowledged the visual approach clearance.
- 1823 AAR214 was issued a speed reduction to 180 and instructed to maintain that speed to a 5 mile final. Traffic was issued behind and to his right and AAR214 was advised the traffic had them in sight. AAR214 acknowledged the information and instructions.
- 1825 AAR214 was issued a frequency change to San Francisco Tower on 120.5. pilot acknowledged the instruction but his read back was partially unintelligible.

No More Follows

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

REPORT OF AIRCRAFT ACCIDENT

(Continuation Sheet)

REPORT DATE July 31, 2013

SFO-ATCT-0027

NAME OF REPORTING FAC LITY

San Francisco ATCT (SFO)

REPORT NO.

14. CHRONOLOGICAL SUMMARY OF FLIGHT

July 06, 2013

ALL TIMES BELOW ARE COORDINATED UNIVERSAL TIME UNLESS OTHERWISE SPECIFIED

1825 AAR 214 on a visual approach reported 7 mile final Runway 28L.

1826 AAR214 reported short final.

1827 SFO ATCT LC cleared AAR214 to land Runway 28L.

1828 AAR214 crashed on the approach end of Runway 28L.

6. Flight Crew, Continued.

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, Flight Attendant, Unknown City and State, Injured
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- , Flight Attendant, Unknown City and State, Uninjured.
- , Flight Attendant, Unknown City and State, Uninjured.
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- , Flight Attendant, Unknown City and State, Uninjured.

12. ATS Personnel Involved, Continued.

Bryan Friedline (BF), Northern California Tracon (NCT)(2B)AP Shane Evanshine (UC), Northern California Tracon (NCT)(2W)AP

No More Follows

PAGES FAA Form 8020-6-1

SECTION 3.
Normal Service Statement(s) and Certified Index(es)



Memorandum

Date: JUL 1 5 2013

To: San Francisco Airport Traffic Control Tower

From: R. Randall Park, Manager, Oakland Air Route Traffic Control Center

Subject: **INFORMATION**: Normal Service Statement

Aircraft Accident, AAR214 San Francisco, CA, July 06, 2013

All services provided by Oakland Air Route Traffic Control Center were normal, and there were no pertinent transmissions.

Attachments

CERTIFIED INDEX

JUL 15 2013

I certify that the following originals are on file in this office.

FAA Form 7230-4

FAA Form 7230-10

FAA Form 8020-6-1

FAA Form 8020-9

FAA Form 8020-26

Personnel Log(s)

Certified Original Copy(ies) of Voice Recording(s)

Certified Working Copy(ies) of Voice Recording(s)

Facility Layout Chart(s)

Airport Diagram

Flight Progress Strip(s)

ERAM SAR Files

CPDLC Messages

Weather Data

R. Randall Park

Manager, Oakland ARTCC

CERTIFIED INDEX

July 10, 2013

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FAA Form 7230-4

FAA Form 7230-10

FAA Form 8020-6-1

FAA Form 8020-26

Personnel Log(s)

Certified Original Copy(ies) of Voice Recording(s) Certified Working Copy(ies) of Voice Recording(s)

Facility Layout Chart(s)

Continuous Data Recording (CDR)

Flight Progress Strip(s)

Transcription(s) of Voice Recording(s)

Donald H. Kirby

Manager, Northern California TRACON

CERTIFIED INDEX

July 31, 2013

I certify that the following originals are on file in this office.

FAA Form 7230-4

FAA Form 7230-10

FAA Form 8020-6

FAA Form 8020-6-1

FAA Form 8020-9

FAA Form 8020-3

FAA Form 8020-26

Personnel Log(s)

Certified Original Copy(ies) of Voice Recording(s)

Certified Working Copy(ies) of Voice Recording(s)

Facility Layout Chart(s)

Airport Diagram

Flight Progress Strip(s)

Transcription(s) of Voice Recording(s)

AMASS Replay

Andy Richards

Manager, San Francisco ATCT

SECTION 4.

FAA Form(s) 7230-4, Daily Record of Facility Operation

DAILY RECORD OF FACILITY OPERATION DATE Jul 6, 2013						PAGENO Page 1 of 1
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RCH358/C17 REPORTED TO PARADISE THEY HEARD A MAYDAY CALL ON EITHER 121.5 OR 243.0, AND SHORTLY AFTER A BRIEF ELT. THE PILOT STATED HE THOUGHT THE CALL SIGN WAS EITHER TANGO1 OR EAGLE1. NEITHER CALL SIGN IN COUNT OPS. ZOA/OM AND ROC ADVISED FT AIRCRAFT ACCIDENT AT SFO INVOLVING AAR214/B777 LANDING RUNWAY 28L, RKSI-SFO, AIRPORT OPERATIONS SUSPENDED FT DEN HAS WAIVED REPORTING REQUIREMENTS FOR SFO DIVERTS UNTIL 2300Z FT RNO GO AROUND, SKW6345/CRJ2, WIND SHIFT FT WCLC FT SFO RWY 19R OPEN FT SOUTHEAST PLAN, SFO RWY 19, OAK RWY 29, SJC RWY 30 FT OLD OAK ON RWY 11 DN OAK ON RWY 11 DN G.MCCOY ON ET SJC ON RWY 12 ET	1542	WCLC GR				
OR 243.0, AND SHORTLY AFTER A BRIEF ELT. THE PILOT STATED HE THOUGHT THE CALL SIGN WAS EITHER TANGO1 OR EAGLE1. NEITHER CALL SIGN IN COUNT OPS. 20A/OM AND ROC ADVISED FT AIRCRAFT ACCIDENT AT SFO INVOLVING AAR214/B777 LANDING RUNWAY 28L, RKSI-SFO, AIRPORT OPERATIONS SUSPENDED FT D. FOLLETT ON FT DEN HAS WAIVED REPORTING REQUIREMENTS FOR SFO DIVERTS UNTIL 2300Z FT RNO GO AROUND, SKW6345/CRJ2, WIND SHIFT FT WCLC FT SFO RWY 19R OPEN FT SOUTHEAST PLAN, SFO RWY 19, DAK RWY 29, SJC RWY 30 FT D. FREEMAN ON DN OAK ON RWY 11 DN G.MCCOY ON ET SJC ON RWY 12 ET	1623	DALR RECORDER C	HECK COMPLE	ETE GR		
RKSI-SFO, AIRPORT OPERATIONS SUSPENDED FT D. FOLLETT ON FT DEN HAS WAIVED REPORTING REQUIREMENTS FOR SFO DIVERTS UNTIL 2300Z FT RNO GO AROUND, SKW6345/CRJ2, WIND SHIFT FT WCLC FT SFO RWY 19R OPEN FT SOUTHEAST PLAN, SFO RWY 19, OAK RWY 29, SJC RWY 30 FT D. FREEMAN ON DN OAK ON RWY 11 DN G.MCCOY ON ET SJC ON RWY 12 ET	1827	OR 243.0, AND S CALL SIGN WAS E	HORTLY AFTE ITHER TANGO	ER A BRIEF E	LT. THE PILOT STA	TED HE THOUGHT THE
DEN HAS WAIVED REPORTING REQUIREMENTS FOR SFO DIVERTS UNTIL 2300Z FT RNO GO AROUND, SKW6345/CRJ2, WIND SHIFT FT WCLC FT SFO RWY 19R OPEN FT SOUTHEAST PLAN, SFO RWY 19, OAK RWY 29, SJC RWY 30 FT D. FREEMAN ON DN OAK ON RWY 11 DN G.MCCOY ON ET SJC ON RWY 12 ET	1828	로마				RUNWAY 28L,
1950 RNO GO AROUND, SKW6345/CRJ2, WIND SHIFT FT 2129 WCLC FT 2227 SFO RWY 19R OPEN FT 2230 SOUTHEAST PLAN, SFO RWY 19, OAK RWY 29, SJC RWY 30 FT 0100 D. FREEMAN ON DN 0200 OAK ON RWY 11 DN 0430 G.MCCOY ON ET 0635 SJC ON RWY 12 ET	1833	D. FOLLETT ON.	FT			
2129 WCLC FT 2227 SFO RWY 19R OPEN FT 2230 SOUTHEAST PLAN, SFO RWY 19, OAK RWY 29, SJC RWY 30 FT 0100 D. FREEMAN ON DN 0200 OAK ON RWY 11 DN 0430 G.MCCOY ON ET 0635 SJC ON RWY 12 ET	1844	DEN HAS WAIVED	REPORTING F	REQUIREMENTS	FOR SFO DIVERTS	UNTIL 2300Z FT
2227 SFO RWY 19R OPEN FT 2230 SOUTHEAST PLAN, SFO RWY 19, OAK RWY 29, SJC RWY 30 FT 0100 D. FREEMAN ON DN 0200 OAK ON RWY 11 DN 0430 G.MCCOY ON ET 0635 SJC ON RWY 12 ET	1950	RNO GO AROUND,	SKW6345/CR	2, WIND SHI	FT FT	
2230 SOUTHEAST PLAN, SFO RWY 19, OAK RWY 29, SJC RWY 30 FT 0100 D. FREEMAN ON DN 0200 OAK ON RWY 11 DN 0430 G.MCCOY ON ET 0635 SJC ON RWY 12 ET	2129	WCLC FT				
0100 D. FREEMAN ON DN 0200 OAK ON RWY 11 DN 0430 G.MCCOY ON ET 0635 SJC ON RWY 12 ET	2227	SFO RWY 19R OPE	N FT			
0200 OAK ON RWY 11 DN 0430 G.MCCOY ON ET 0635 SJC ON RWY 12 ET	2230	SOUTHEAST PLAN,	SFO RWY 19	, OAK RWY 2	9, SJC RWY 30	FT
0430 G.MCCOY ON ET 0635 SJC ON RWY 12 ET	0100	D. FREEMAN ON.	DN			
0635 SJC ON RWY 12 ET	0200	OAK ON RWY 11.	DN			
positive decidence species (Section 1995)	0430	G.MCCOY ON	ET			
0659 COB ET	0635	SJC ON RWY 12.	ET			
	0659	COB ET				
	that all sche	eduled operations have been	SIGNATURES(S) C	WATCH SUPERVISOR()	1	
1 CERTIFY that entries above are correct that all scheduled operations have been accomplished except as noted, and that all		courrences and conditions have	1	/		

PAGE NO Page 1 of 2 DAILY RECORD OF FACILITY OPERATION DATE Jul 6, 2013 CHECKED BY LOCATION OPERATING POSITION IDENTIFICATION TYPE FACILITY AIR TRAFFIC MANAGER OS/CIC San Francisco, CA SFO ATCT Andrew M. Richards UTC TIME REMARKS E. Hughes on, Dept Rys 1, Lndg Rys 28, CFPL: Twy Z1 entrance to rwy 10R 0700 restricted to single or twin engine prop only, Z1 exit unrestricted. Ry 28R/L ALS OTS, Ry 28R/L & LDA GS OTS, IM/FFM OTS, Ry 28R/L TD RVR OTS. -- EH 0800 Depg rwys 10, wind 24006. -- EH P. Escobar on. -- PD 0931 LUAW at INT of RWY 1R and TWY M in effect. -- PD 1230 LUAW at INT of RWY 1R and TWY M suspended. -- PD 1254 D. McMullin on. -- PD 1302 R. Knaack on, above noted. -- RK 1330 WCLC. -- RK 1340 D. McMullin on. -- MN 1500 J. Okuda on. -- MN 1532 1547 R. Knaack on, above noted. -- MN D. McMullin on. -- RK 1803 1828 Airport closed due to an aircraft mishap, see SFO-M-2013-13/07/06-0001. -- RK R. Knaack on, above noted. -- RK 1830 N. Findlay on, above noted. -- NF 1918 R. Knaack on, above noted. -- RK 1933 1944 SFO-M-2013/07/06-0001 -- AAR214 -- RK Twy L, P, N clsd btn Rwys28. Twy w clsd. Twy F & C clsd east of 2109 Rwys01R. -- BD B. Descalopoulis on, above noted. -- RK 2118 Twy L open. -- BD 2124 Rwy28L PAPI ots -- BD 2130 Rwy19R 19L open. -- BD 2154 Airport open. Landing and departing Rys 19. -- BD 2225 S. Orman on, above noted. -- BD 2249 WCLC. -- SO 0027 B. Descalopoulis on, above noted. -- BD 0101 S. Orman on, above noted. -- SO 0219 SIGNATURES(S) OF WATCH SUPERVISOR(S) I CERTIFY that entries above are correct. that all scheduled operations have been accomplished except as noted, and that all abnormal occurrences and conditions have

FAA Form 7230-4

	DAILY REC	ORD OF FAC	ILITY OPER	ATION	PAGE NO Page 2 of 2 DATE Jul 6, 2013
LOCATION		IDENTIFICATION	TYPE FACILITY	OPERATING POSITION	CHECKED BY
San	Francisco, CA	SFO	ATCT	os/cic	AIRTRAFFIC MANAGER Andrew M. Richards
UTC TIME			REN	ARKS	
0323	B. Descalopouli	s on, above	noted	BD	
0434	S. Orman on, ab	ove noted.	BD		
0543	D. Hearn on, ab	ove noted.	SO		
0611	WCLC JT				
0659	COB JT				
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that all sche	Y that entries above are correct, aduled operations have been ed except as noted, and that all	SIGNATURES(S)	OF WATCH SUPERVISO	RIS)?	
	ccurrences and conditions have				
FAA Form	7230-4			1	

SECTION 5.
Personnel Log(s)

PERSONNEL LO	G	REC	ION	FACI	LITY		AREA ID			DAT	E	
PERSONNEL LO		Al	VP.	NO	T		AREA B		MONTH: JU	L DAY:	06 YEAR	R: 201
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS I FACIL NON	JITY, TRN	ABSENCE G. TDY AI VAL DUTIE	ND
ANTONE, AARON (AE) 05:30 - 13:30	R	05:30	08:15	02+45	05+15	Leave	00+00	01+46				
FRIEDLINE, BRYAN	R	05:30	13:30	There are a								
(BF) 05:30 - 13:30		13:30	17:15	11+45			04+42	04+46				
SAMSEL, TIMOTHY (JI) 05:30 - 13:30	R	05:30	13:30	08+00			00+01	05+23				
HODSDON, JEFFREY (OC) 06:00 - 16:00	R	06:00	16:00	10+00			00+00	04+35				
MOSES, LEONARD	R	06:35	14:35									
(MO) 06:35 - 14:35	1	14:35	15:25	08+50			00+46	08+01				
EVANSHINE, SHANE	R	07:37	15:37									
(UC) 07:37 - 15:37		15:37	17:47	10+10			04+45	02+37				
WITTENBERG, ERIK (EW) 07:48 - 15:48	R	07:48	15:48	08+00			00+00	04+18				
CLARK, JULIANNA (JZ) 07:59 - 15:59	R	07:59	15:59	08+00			01+13	04+18				
LYLE, DEVIN (DV) 11:00 - 21:00	R	11:00	21:00	10+00			05+18	02+05				
ALVAREZ, RAFAEL (GZ) 12:55 - 20:55	R	12:55	20:55	08+00			06+19	00+57			*************	*******
GALLAGHER, NATHAN (NJ)	R	13:15	21:15	08+00			00+51	03+27				
13:15 - 21:15 TABOR, FRANKLIN (UP)	R	13:15	21:15	08+00			01+22	03+44				
13:15 - 21:15 WILCOX, SCOTT	R	13:30	21:30									
(SW)	1	21:30		10+00			00+28	09+23				
13:30 - 21:30 BUSTAMONTE, JOSHUA (VB)	R		23:30	08+00			00+02	03+57				
13:45 - 21:45 PITTMAN, WILLIAM (KA)	R	13:45	21:45	08+00			01+22	03+28				-
13:45 - 21:45 HUNT, PATRICK (DQ)	R	-	17:00		05.00	Leaus						-
14:00 - 22:00 ROSE, AARON	-				03+00	Leave	01+34					
(UF) 14:45 - 22:45 BOGART, CARL	R	14:45	22:45	08+00			00+14	04+20				
(CB) 16:00 - 00:00	R	16:00	00:00	08+00			00+19	04+39				
10:00 - 00:00	NAM	IE	COD	E TIME ON	TIME OFF	INTLS	NAM	E	CODE	TIME ON	TIME	INT
SUPERVISORY CERTIFICATE			+									
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Official Version

PERSONNEL LO	nG.	REC	SION	FAC	LITY	A	REAID			DATE		
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NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS I FACII NON	FOR: ALL A LITY, TRNO POSITION	S, TDY AN	ID
RUBERT, DAVID (KD) 16:00 - 00:00	R	16:00	00:00	08+00			00+05	05+01				
STENDER, DANIEL (WH) 16:00 - 00:00	R	16:00	00:00	08+00			00+11	04+34				
WITTENBERG, ERIK (EW) 23:54 - 07:54	R	23:54	07:54	08+00			00+00	03+15				
BUENROSTRO, JUAN (OG) 05:30 - 13:30					08+00	Leave	00+00	00+00				
COOK, PATRICK (PC) 07:00 - 15:00					08+00	Leave	00+00	00+00				
MCCLAIN, JOHN (JM) 07:00 - 15:00					08+00	Leave	00+00	00+00				
GEDDES, JEFFREY (JF) 14:00 - 00:00					10+00	Leave	00+00	00+00				
DANIELS, TROY (TD) NAS												
DOMITROVICH, ADAM (DH) NAS												
MEYERS, CRAIG (BR) NAS												
CALDWELL, MICHAEL (MC) RDO												
FAITH, LAUREN (US) RDO												
GREENE, ALAN (GE) RDO												
HAIGHT, SARA (NO) RDO												
HALL, JERRY (JD) RDO												
HIGGINS, PAUL (HS) RDO											***************************************	
JOHNSON, CHRISTINE (CJ) RDO												
LEIS, BRETT (EI) RDO												
	NAM	Æ	COD	E TIME ON	TIME	INTLS	NAM	Ē	CODE	TIME ON	TIME OFF	INT
SUPERVISORY CERTIFICATE				+								

Official Version

PERSONNEL LOG	_	REG	NOI	FAC	LITY		AREA ID		DATE				
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MAES, DAVID (UV) RDO													
NORTHAM, THOMAS (TT) RDO													
OWENS, DAWN (DO) RDO													
RAND, ERIC (EJ) RDO													
WHITE, BRYANT (WW) RDO													
WILLIAMS, CHRISTOPHER (OX) RDO													
WOLLERT, MICHAEL (MW) RDO													
	NAM	E	CODE	TIME	TIME	INTLS	NAME	CODE	TIME ON	TIME	INTLS		
SUPERVISORY CERTIFICATE													
<u></u>	TH (Signature	E SIGNATU	JRES ABOV	E CERTIF	Y THAT THE	E ABOVE ENT	TRIES ARE CORRECT Record of Facility Opera	ioni					

Official Version

PERSONNEL LOG	•	REG	NOI	FACI	LITY		AREA ID			DATE		
PERSONNEL LO	<i>-</i>	AV	VP.	SI	o'	OP	ERATIONS		MONTH: JU	L DAY:	6 YEAR	:201
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS F FACIL NON	OR: ALL A ITY, TRNO POSITION	ABSENCES 3, TDY AN IAL DUTIE	S FROM D S
MCMULLIN, DAWN (MN) 05:00 - 15:00	R	05:00	15:00	10+00			00+18	07+26				
NAUJOKS, FREDERICK	R	05:30	13:30									
(FN) 05:30 - 13:30		13:30	14:30	09+00			00+09	05+27				
OKUDA, JOSEPH	R	05:30	13:30									
(JH) 05:30 - 13:30		13:30	18:00	12+30			05+53	04+05				
SACHS, PETER (PZ) 06:00 - 14:00	R	06:00	14:00	08+00			00+11	05+16				
CALDWELL, DAVID (DC) 06:30 - 14:30	R	06:30	14:30	08+00			00+14	04+53				
FERLITO, DANIELE (DF) 06:30 - 14:30	R	06:30	14:30	08+00			00+41	05+22				
KIPKER, RUSSELL	R	06:30	14:30									
(KP) 06:30 - 14:30		14:30	18:00	11+30			05+52	03+14				
KNAACK, ROLF (RK) 06:30 - 14:30	R	06:30	14:30	08+00			00+00	06+18				
FINDLAY, NICOLE (NF) 07:00 - 15:00	R	07:00	15:00	08+00			00+12	03+54				
SHIRKEY, ALEXIS (LX) 08:30 - 16:30	R	; 08:30	16:30	08+00			00+04	02+46				
NUSS, JAMIE LEE (JN) 13:00 - 23:00	R	13:00	23:00	10+00			00+19	06+19				
DIETRICH, COLE (DZ) 13:30 - 21:30	R	13:30	21:30	08+00			00+00	05+32				
DESCALOPOULIS, BRENT (BD) 14:00 - 22:00	R	14:00	22:00	08+00			00+15	05+06				
HAMILTON, DANIEL	R	14:50	22:50									
(DH) 14:50 - 22:50		22:50	23:50	09+00			00+20	06+05				
SHELTON, ROBERT (XX) 14:50 - 22:50	R	14:50	22:50	08+00			00+07	05+10		ľ		0.000 1 1 4 1 1
ROSSI, ANNA	8	15:30	16:00				- Western					
(AG) 16:00 - 00:00	R	16:00	00:00	08+30			00+21	05+16				
STICCA, BENJAMIN	R	16:05	00:05				INSTANTANTA					
(YO) 16:05 - 00:05	8	00:05	02:05	10+00			00+19	06+27			55	
HART, MARI (HT) 07:00 - 15:00					08+00	Leave	00+00	00+00				
0,150	NAI	ΛE	COL	DE TIME	TIME	INTLS	NAM	IE.	CODE	TIME	TIME	INT
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SUPERVISORY												
CERTIFICATE												
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PERSONNEL LC	,G	IA.	NP	SI	70	OP	ERATIONS		MONTH: JU	IL DAY:	06 YEAR	R: 201
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	FACIL	FOR: ALL / LITY, TRNO POSITION	ABSENCE 3, TDY AN IAL DUTIE	S FRO ID S
SHORT, CHRISTOPHER (CS) 07:00 - 15:00					08+00	Leave	00+00	00+00				
MILLER, DAWN (RD) 07:00 - 15:00					08+00	Leave	00+00	00+00				808.55
TRAHAN, CYNTHIA (NO) 13:00 - 23:00					10+00	Leave	00+00	00+00				Bridge Sterood
NELSON, WILLIAM (BN) 13:30 - 21:30					08+00	Leave	00+00	00+00				
PONO, SAMUEL (AX) RDO		13:30	21:30	08+00			00+06	04+44				
ORMAN, STEPHEN (SO) RDO		15:15	23:15	08+00			01+44	04+24				
CARTER, ERIC (EC) RDO		22:30	06:30	08+00			00+00	05+18				
HEARN, DAVID (JT) RDO		22:30	06:30	08+00			00+00	05+25		1		
ESCOBAR, PETER (PD) NAS												
HUGHES, ERIC (EH) NAS		-;										
BOOTHBY, JACK (JJ) RDO		-										31302.3
CAWRSE, DAWN (AD) RDO												
CRISTALDI, JASON (JC) RDO												
ENGLISH, KRIS (KE) RDO												
HORACEK, MITCHELL (MH) RDO												
HOWARD, DAVI (AR) RDO												
HUNGERLAND, THOMAS (BT) RDO						500000000000000000000000000000000000000						
KIRK, MICHAEL (MK) RDO										153 1000		
	NAM	1E	COD	E TIME ON	TIME	INTLS	NAM	Ē	CODE	TIME ON	TIME OFF	INT
SUPERVISORY CERTIFICATE												
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Official Version

DEDOCMMEL LO		REG	SION	FAC	LITY		AREA ID			DAT	E	
PERSONNEL LC	JG	AV	NP	SI	FO	01	PERATIONS		MONTH: JU	L DAY:	06 YEA	R: 201
NAME	CODE	TIME ON	TIME OFF	HOURS ON DUTY	HOURS ON LEAVE	LEAVE TYPE	HOURS NON POSITION DUTIES ASGNDE	HOURS POSITION DUTIES ASGNDE	REMARKS I FACII NON	FOR: ALL JTY, TRN POSITIO	ABSENCE IG, TDY AI NAL DUTII	ES FROM ND ES
LEYN, PATRICIA (PX) RDO								-				
LOZITO, THOMAS (TL) RDO												
NICHOLS, LEONARD (SP) RDO												
PAULUS, JOHN (JP) RDO												
PETRAS, WILLIAM (BL) RDO												
SHAH, ERIC (ES) RDO												
STEPHENSON, LISA (LI) RDO											1	
	NAM	E	CODE	TIME	TIME	INTLS	NAM	E	CODE	TIME ON	TIME OFF	INTL
SUPERVISORY CERTIFICATE							- G					
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	TH (Signatur	E SIGNATI	URES ABOV	E CERTIF	Y THAT TH	E ABOVE ENT n 7230-4, Daily	RIES ARE COR Record of Facili	RECT ty Operation)		-	

Official Version

SECTION 6.

FAA Form(s) 7230-10, Position Log, or automated equivalent

(1) FACILITY ID	(2) POSITION IDEN	TEER	(3) POS	(4) DATE				
NCT	21		но	07/06/2013				
	100	(2)	Lil	WHERE COMBA				
TIME ON	MITIALS	TME OFF	CODE	GIPOSTION DENTIFIER	(10) POSITION TYPE			
0700	-	0659		2Z	AP			

	1							

S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

T - Trainee/Developmental

Evaluation

FAA Form 7230-10 (6.94) 1-SN 0052-00-024-6102

02 Electronic Version (OmniForm)

		POSITIO	N LOG				
(1) FACILITY ID	CHEOSTION DENT	FER	3) POS	(4) DATE	(4) DATE		
NCT	22		НО	07/06/2013			
TANE CN	NTALS	TIME OFF	(8) CODE	WHERE COMBINED			
TANE ON	MTALS	TIME OFF	CODE	(9) POSITION DENTIFIER	(10) POSITIO TVPE		
0700		0659		2N	AP		
				•			
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ODE:				i Kirmani ya kata wa kata kata kata kata kata kata			

S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

T - Trainee/Developmental

Evaluation

Electronic Version (OmniForm) FAA Form 7230-10 (6:94) NS11 0052-00-024-6102 FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

	POSITIO	N LOG				
a) Position Ident	nreq (3) PGS	(4) DATE			
23		но	07/06/20	13		
NITIALS	TME OFF	coo€		(10) POS/TIC TYPE		
	1839	\dashv	2B	AP		
EW	1852	С	900			
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	(0)					
				1		
	23	23 23 NITHELS TANEOUS 1839 EW 1852	23 HO	23 HO		

M - Trainee/Developmental Monitoring

S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

Evaluation

T - Trainee/Developmental

FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

FAA Form 7230-10 (6:94) NSN 0052-00-024-6102 Electronic Version (OmniForm)

POSITION LOG								
(1) FACILITY ID	(4) DATE							
NCT	24		но		07/06/2013			
(3)	T #1 15				WHERE COMBIN			
TIME ON	NITIALS	TWE DE		OCE	GIPOSITION CENTRES	(10) POSITIO TYPE		
0700		065	9	4	2G	AP		
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M - Trainee/Developmental Monitoring

C - ATCS/ATA M - Trainee/Developmental Monitoring
S - Supervisor/Staff Spec R - Trainee/Developmental Certification/

T - Trainee/Developmental Evaluation

FAA Form 7230-10 (6-94) NSN 0052-00-024-6102 Electronic Version (OmniForm)

		POSITIO	N LOG			
(1) FACILITY ID	@ POSITION DENT	FER	(3) POS (4) DATE			
NCT	27		но	07/06/20	13	
TME ON	NEWS	tue orr	(8) COD€	WHERE COMEZN (9) POSITION (DENTIFIER	itti Positio tves	
0700		1840		2W	AP	
1841	JZ	1844	С			
1845		0659		2W	AP	
			+			
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M - Trainee/Developmental Monitoring

S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

T - Trainee/Developmental Evaluation

FAA Form 7230-10 (6-94) NSN 0052-00-024-6102 Electronic Version (OmniForm)

POSITION LOG							
1) FACUTY IO	(2) POSITION DENT	FER (3)	P05	#) SATE			
NCT	2B	A	P	07/06/2013			
TANE CN	N 11ALS	TIME OFF	ccoe	MHERE COMEN	IND POSITION		
0700		1240		Closed			
1241	BF	1259	С				
1300	JI	1443	С				
1444	UC	1518	С				
1519	JI	1632	С				
1633	JZ	1729	С	- 11			
1730	BF	1823	C				
1824	JI	1858	С				
1859	00	1931	С				
1932	UC	1932	С				
1933	JI	2018	С				
2019	NJ	2045	С				
2046	EW	2056	С				
2057	VB	2058	С				

C - ATCS/ATA M - Trainee/Developmental Monitoring S - Supervisor/Staff Spec R - Trainee/Developmental Certification/

T - Trainee/Developmental

Evaluation FAA Form 7230-10 (6-94) NSN 0052-00-024-6102 Electronic Version (Omn/Form)

POSITION LOG								
(1) FACILITY D	TY 0 Q:POSITION DENTIFIER (I) POS	POS	(4) SATE					
NCT	2B	P	P	07/06/2013				
1.00 CN	NITALS	TIME OFF	CCDE	WHERE COMEN (3) POSITION DENTIFIER	(10) POSITION TYPE			
2059	00	2127	C					
2128	EW	2147	C					
2148	UF	2159	c					
2200	NJ	2221	С					
2222	VB	2307	С					
2308	CB	2332	С					
2333	UP	0038	С					
0039	KA	0100	С					
0101	UP	0141	C					
0142	WH	0212	С					
0213	UP	0245	С					
0246	WH	0312	С					
0313	UP	0355	С					
0356	VB	0434	С					

CODE:

C - ATCS/ATA

M - Trainee/Developmental Monitoring

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T - Trainee/Developmental Evaluation

FAA Form 7230-10 (6:94) NSN 0052-00-024-6102

Electronic Version (OmniForm)

		POSITION	LOG		
(1) FACILITY ID	(2) POSITION DENT	元 (3)	ros	(4) DATE	
NCT	2B	A	P	07/06/2013	
TAE CN	NITIALS	TWE OFF	ccc€	WHERE COMBINE (N) POSITION DENTIFER	(10) POS/TIC TVPE
0435	СВ	0656	С		1465
0657	EW	0659	С		
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M - Trainee/Developmental Monitoring

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Evaluation Electronic Version (OmniForm)

POSITION LOG								
(2) Position (DENT)	FER (3)	(3) PGS (4) CAT						
2E	A	P	07/06/2013					
(6)	(7)	(8)	WHERE COMBINE					
Norwis	TAFCH	cooe	(R) POSITION CENTRIES	itti Positior TVP€				
	0659	++	Closed	-				
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		+						
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	(2) POSITION IDENT	2E A 16 100	2) FOSTION DENTIFER (3) FOS 2E AP (5) FOSTION DENTIFER (5) FOSTION D	2E AP 07/06/20 AP 07/06/20				

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T - Trainee/Developmental

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		POSITION	1 LOG			
(1) FACILITY ID	IZIPOSITION DENT	F ER (2)	P05	STAG(#)		
NCT	2F	P	P	07/06/2013		
rue cu	NTALS	nother	COOF	WHERE COMENS GIPOSITION GENTRER	13) POSITIO	
0700		1614		2W	AP	
1615	00	1701	С			
1702	BF	1702	С			
1703		1756		2W	AP	
1757	JZ	1834	С			
1835		0659		2W	AP	
	-		++		-	
	-					
			+			
			-			

CODE:

C - ATCS/ATA

M - Trainee/Developmental Monitoring

C - ATCS/ATA
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T - Trainee/Developmental

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2) Position bent		Pos	(4) EATE		
2G	A	_			
1		P	07/06/20	13	
NTALS	THE OFF	C00E	WHERE COMEM ITS POSITION DENTIFIER	(10) POSITION TYPE	
	1829		2B	AP	
BF	1847	С			
00	1849	С			
	0659		2B	AP	
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C - ATCS/ATA M - Trainee/Developmental Monitoring
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Evaluation
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 Evaluation

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ITY FACILITY D	(2) Position DENTA	POSITION	Pos	(4) DATE	
NCT	21		ZI	07/06/20	13
	T		T' L	WHERE COMEN	
tue ov	NTALS	TIME OFF	ccc€	(9) POSITION IDENTIFIER	(10) POSITIO TYPE
0700		0659		BS	SI

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		Wieseles Co.			
ODE: - ATCS/ATA	12.West		alleinAs	relopmental Monitorin	

T - Trainee/Developmental

FAA Form 7230-10 (6-94) NSN 0052-00-024-6102

Evaluation Electronic Version (OmniForm)

POSITION LOG							
1) FACILITY D	(2) POSITION IDENT	FER 13	POS .	(4) DATE			
NCT	2N	I	4P	07/06/20	13		
THE CN	withis	THE CAR	c00€	WHERE COMBAN	(14) POSITION		
0700		1454		28	AP		
1455	00	1543	С				
1544		1559		2B	AP		
1600	AB	1707	C	/ - TR1			
1708		1801		2B	AP		
1802	DV	1854	С				
1855	EW	1939	C				
1940		2239		2B	AP		
2240	JZ	2257	C				
2258	NJ	2342	С	77.00			
2343	VB	0004	C				
0005	KD	0038	С				
0039	VB	0111	С				
0112	KD	0141	С				

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C - ATCS/ATA

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POSITION LOG								
CI YTI JICAR (F)	(2) POSITION DENT	ON DENTIFIER (2) POS		(#) DATE				
NCT	2P		AP	07/06/2013				
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t ve on	NTALS	TIME OFF	coos.	(9) POSITION IDENTIFIER	ITTI POSITIO TYPE			
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C - ATCS/ATA

M - Trainee/Developmental Monitoring

S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

Evaluation

T - Trainee/Developmental FAA Form 7230-10 (6-94) NSN 0052-00-024-6102

Electronic Version (OmniForm)

		POSITIO	N LOG		
1) FACILITY ID IZ: POSITION DEN		FER (1)POS		(A) DATE	
NCT	2W		AP P	07/06/20	
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0700		1421		23	AP
1422	AE	1503	С		
1504	JZ	1559	С		
1600	BF	1701	С		
1702	00	1705	С		
1706	JI	1737	C		
1738	EW	1809	C		
1810	UC	1856	С		
1857	JZ	1943	C		
1944	EW	2018	C		
2019		2239		2B	AP
2240	UF	2309	C		
2310	MH	2349	C		
2350	UF	0023	С		1

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 NSN 0052-00-024-6102
 Electronic Version (OmniForm)

POSITION LOG								
(1) FACILITY ID	(2) POSITION IDENT	FER (3)	(4) DATE					
NCT	2₩	A	P	07/06/20	13			
TAKE ON	MINUS	TWE OFF	(a) (a)	WHERE COMMAN	(14) Position Type			
0024	NJ	0053	С					
0054	UF	0127	С					
0128	KA	0205	С					
0206	СВ	0239	C					
0240	KA	0316	C					
0317	WH	0332	c					
0333	NJ	0359	С					
0400	UF	0527	С					
0528	WH	0609	C					
0610		0659		2B	AP			

C - ATCS/ATA

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Evaluation

T - Trainee/Developmental FAA Form 7230-10 (6-94) 125N 0052-00-024-6102

		POSITION	LOG			
1) FACILITY ID	ZUTY ID 121 POSITION DENTIFIER (2) POS		PO5	(4) DATE		
NCT	22	P	AP	07/06/20	13	
TNE CN	NTALS	TAR DEF	code	WHERE COMBINE (9) POSITION CENTRES	(12) POSITION TYPE	
0700		1240	\Box	B-MID	AP	
1241	JI	1259	С			
1300	BF	1334	С			
1335	00	1421	С			
1422	BF	1448	С			
1449	EW	1554	С			
1555	uc	1636	С			
1637	EW	1705	С			
1706	UC	1737	С			
1738	00	1808	С			
1809	JI	1821	С			
1822	LL	1923	C			
1924	DV	2011	С			
2012	00	2018	С			

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POSITION LOG							
(1)FACILITY ID	(2) POSITION DENT	FER (3)	P05	4 DATE			
NCT	2Z	F	AP .	07/06/20	13		
THEON	N PALS	tive of	(8) €002	WHERE COMBINION DENTIFIER	(10) POSITION TYPE		
2019	JZ	2056	С	***************************************			
2057	DV	2111	С				
2112	DQ	2134	С				
2135	VB	2150	c				
2151	DV	2159	C	701000E5000=101			
2200	00	2218	C				
2219	KA	2259	C				
2219	UP	2259	T				
2300	KD	2332	C				
2333	KA	0004	c				
0005	CB	0028	C				
0029	WH	0105	С				
0106	CB	0128	c				
0129	NJ	0158	С				

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		POSITION	LOG		
INFACLITY ID	(2) POSITION IDENTIFIER (3) POS			(4) DATE	
NCT	2Z	A	.P	07/06/20	13
11MF CN	MITALS	TWE OFF	(8) COD€	WHERE COMEN (I) POSITION DENTH FR	(M) Position
0159	UF	0226	С		
0227	NJ	0252	С		
0253	UF	0326	С		
0327	KD	0343	С		
0344	KA	0421	C		
0422	KD	0656	C		
0657	WH	0657	C		
0658		0659		Closed	

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POSITION LOG								
CIPOSITION DENTIFI	ER I	2) PO5	(4) EATE					
B-MID		AP	07/06/20	13				
4.157.5	THEORE	(8)						
			(hPODTON DENTHER	(10) FOSITIO TYPE				
BR	1240	С						
	0659		Closed					
	B-MID Part Part	B-MID	B-MID AP	C) POSITION CENTIFER (3) POS (

C - ATCS/ATA

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S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

Evaluation

T - Trainee/Developmental FAA Form 7230-10 (5-94) NSN: 0052-00-024-6102

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	F	POSITIO	ON LOG		
(1) FACILITY ID	121 POSITION EENTH	FER (3)F05		(4) DATE	
NCT	Bl		CI	07/06/20	13
131	16)	in.		WHERE COMBIN	
TANE CN	N.TALS	TIME OFF	000€	(9) POSITION CENTIFIER	(10) POSITION TYPE
0700		0659		BS	SI
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ODE:				***************************************	
-ATCS/ATA		M	- Trainee/Dev	elopmental Monitorir	ng

T - Trainee/Developmental Evaluation

FAA Form 7230-10 (6.94) NSN 0052-00-024-6102 Electronic Version (OmniForm)

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		POSITIO	ON LOG			
(1) FACULTY ID (2) POSITION EEN		1 EB	(3) PDS	(4) DATE		
NCT	BC		SI	07/06/20	13	
TANÉ CM	NTALS	TIME OFF	coce	WHERE COMBINE OF POSTION CENTRER	(12) POSITIO	
0700		1240		BS	SI	
1241	AE	1344	С			
1345		1405		Closed		
1406	BF	1420	С			
1421		1626		Closed		
1627	EW	1633	С			
1634		2001		Closed		
2002	00	2008	c			
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C - ATCS/ATA

M - Trainee/Developmental Monitoring

S - Supervisor/Staff Spec

R - Trainee/Developmental Certification/

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T - Trainee/Developmental

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VSN 0052-00-024-6102 Electronic Version (OmniForm)

		POSIT	ION L	OG			
(1)FACILITY O	(2) POSITION IDEN	(2) POSITION DENTIFIER (3) POS		T	(4) DATE		
NCT	BD		DI		07/06/20	13	
Tale on	NITALS	1(7) 1(ME OF		(8) ¢00€	WHERE COMEN		
0700		145	-		BS	SI	
1455	BF	154	9	С			
1550		205	4		BS	SI	
2055	GZ	215	1	C			
2152		065	9		BS	SI	
				4			
	+			+	***************************************		

C - ATCS/ATA

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R - Trainee/Developmental Certification/

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FAA Form 7230-10 (6-94) NSN 0052-00-024-6102 Electronic Version (OmniForm) FOR OFFICIAL USE ONLY Public Availability to be determined under 5 U.S.C. 552

		POSITI	ON LOG			
(1) FACLITY ID	(2) POSITION IDENT	ENTIFER (3) POS		(4) DATE		
NCT	BS		SI	07/06/20	13	
TANEON	HEL MTALS	(f) TIME OFF	(8) 000€	WHERE COMEN		
	MIALS	(WE OFF	Occe	(9) POSITION IDENTIFIER	(12) POSITIO TYPE	
0700		1344		Closed		
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2135	МО	2145	s			
2146	SW	0429	s			
0430	SW	0621	s			
0622		0659	;	Closed		
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C - ATCS/ATA

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FAA Form 7230-10 (6-94) NSN 0052-00-024-6102

Evaluation
Electronic Version (OmniForm)

		POSITI	ON LOG		
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NCT	BX		SI	07/06/20	13
1ME CH	NTALS	TNE OFF	(8) C00€	WHERE COVER	
TIME CN	AJTALS	1.0E G11	CODE	(A) POSITION DENTIFIER	(10) PGS/TIC TYPE
0700		2058	3	Closed	
2059	SW	2145	S		
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	1				+
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C - ATCS/ATA

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T - Trainee/Developmental FAA Form 7230-10 (6.94) NSN 0052-00-024-6102

Evaluation Electronic Version (OmniForm)

		POSITIO	N LOG		
	SFO LC		Log Date Pos Type		013
TIME	Initials	TIME	Code	Where C	ombined To:
ON	initials	OFF	Code	Pos ID	Pos Type
0700	EH	0930	С		
0931	PD	1229	S		
1230	FN	1334	Ċ.		
1335	DF	1413	С		
1414	JH	1502	С		
1503	DC	1606	С		
1607	PΖ	1715	С		
1716	JH	1717	С		
1718	JH	1831	С		
1718	KP	1831	Т		
1832	JH	1835	С		
1836	DC	2024	С		
2025	JN	2152	С		
2153	XX	2301	C		
2302	DZ	0011	С		
0012	AG	0121	С		
0122	DH	0244	С		
0245	DZ	0405	С		
0406	JN	0537	С		
0538	EC	0659	С		

		POSITIO	N LOG		
	SFO LCA		Log Date Pos Type	No. 1	013
TIME	1-111-1-	TIME	Code	Where Co	ombined To:
ON	Initials	OFF	Code	Pos ID	Pos Type
0700		1338		LC	LC
1339	DC	1416	С		
1417	FN	1454	C		
1455	DF	1523	С		
1524	DF	1612	С		
1524	KP	1612	T		
1613	NF	1728	С		
1729	LX	1832	С		
1833	DF	2037	С		
2038	AX	2058	С		
2059		2245		LC	LC
2246	AX	2357	C		
2358	BD	0054	S		
0055	DZ	0208	C		
0209	JN	0325	С		
0326	AX	0405	С		
0406	XX	0434	С		
0435		0457		LC	LC
0458	AG	0631	С		
0632		0659		LC	LC

		POSITIO	N LOG		
i do ib.	SFO CD		Log Date Pos Type		013
TIME	TIME	TIME	Code	Where C	ombined To:
ON	Initials	OFF	Code	Pos ID	Pos Type
0700		1229		GC2	GC
1230	PD	1259	S		
1300	PZ	1359	С		
1400	NF	1528	С		
1529	FN	1640	С		
1641	DC	1802	С		
1803	PZ	1911	С		
1912	KP	1913	С		
1914	PZ	2021	С		
2022		2029		OS/CI	c sc
2030	DZ	2216	С		
2217		2231		GC2	GC
2232	AG	2259	С		
2300	AG	2332	С		
2333	XX	0040	С		
0041	AX	0123	С		
0124	XX	0218	С		
0219	AG	0252	С		
0253	YO	0327	С		
0328	DH	0434	С		

		POSITIO	N LOG		
Fac ID: SFO Pos ID: CD		Log Date: 7/6/2013 Pos Type: CD			
TIME	Initials	TIME	Code	Where Co	ombined To:
ON	miliais	OFF	Code	Pos ID	Pos Type
0435	XX	0530	С		
0531	SO	0542	S		
0543	SO	0543	S		
0544	YO	0623	С		
0624	JT	0659	S		

FacID: SFO PosID: OS/CIC			Log Date: Pos Type:	200	013
TIME	TIME	Code	Where Co	ombined To:	
ON	Initials	OFF	Code	Pos ID	Pos Type
0700	EH	0930	С		
0931	PD	1301	S		
1302	MN	1329	C		
1330	RK	1459	S		
1500	MN	1531	С		
1532	JH	1546	С		
1547	RK	1808	S		
1809	MN	1829	С		
1830	RK	1917	S		
1918	NF	1932	С		
1933	RK	2110	S		
2111	BD	2248	S		
2249	SO	0100	S		
0101	BD	0218	S		
0219	SO	0320	S		
0321	BD	0433	S		
0434	SO	0542	S		
0543	JT	0659	S		

		Log Date: Pos Type:	7/6/2013 TM	
TIME TIME Code	Where Combined 1			
initials	OFF	Code	Pos ID	Pos Type
	1159		os/cic	SC
MN	1301	С		
MN	1329	C		
MN	1414	С		
	1458		os/cic	SC
MN	1459	С		
MN	1531	С		
MN	1646	С		
	1700		os/cic	SC
MN	1701	С		
	1743		os/cic	SC
MN	1808	С		
MN	1829	С		
MN	2022	С		
	0659		os/cic	SC
	MN MN MN MN MN MN MN MN	SFO TMDC1 Initials Initials TIME OFF 1159 MN 1301 MN 1329 MN 1414 1458 MN 1459 MN 1531 MN 1646 1700 MN 1701 1743 MN 1808 MN 1829 MN 2022	Initials TIME OFF Code 1159 MN 1301 C MN 1329 C C MN 1414 C C MN 1458 C C MN 1531 C C MN 1646 C C MN 1701 C 1743 MN 1808 C MN 1829 C MN 2022 C	SFO TMDC1

		POSITIO	N LOG		
			Log Date Pos Type		013
TIME	1-itiala	TIME	Code	Where Co	ombined To:
ON	Initials	OFF	Code	Pos ID	Pos Type
0700		1229		LC	LC
1230	JH	1332	С		
1333	KP	1441	С		
1442	PZ	1531	С		
1532	LX	1646	С		
1647	MN	1653	С		
1654	DF	1813	С		
1814	FN	1817	С		
1818	NF	1911	С		
1912	LX	1938	С		
1939	FN	2022	С		
2023	MN	2058	С		
2059	AX	2156	С		
2157	DH	2309	С		
2310	YO	0012	С		
0013	JN	0121	С		
0122	YO	0202	С		
0203	AX	0252	С		
0253	XX	0325	С		
0326	AG	0422	С		

Fac ID: Pos ID:	SFO GC2		Log Date: Pos Type:	7/6/2013 GC	
TIME	Initials	TIME	Code	Where Co	ombined To:
ON	midais	OFF	0000	Pos ID	Pos Type
0423	YO	0513	C		
0514	DH	0549	С		
0550	DH	0624	С		
0625	YO	0659	С		
		-			
					-
					-
			1		
			-		

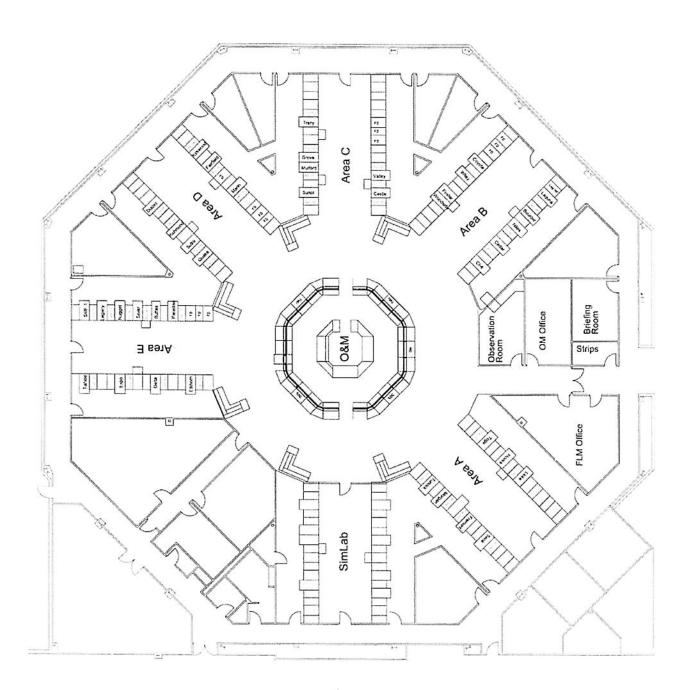
		POSITIO	IN LOG			
Fac ID: SFO Pos ID: FD			Log Date: Pos Type:	7/6/2013 FD		
TIME	Initials	TIME	Code	Where Combined To:		
ON	IIIIIIais	OFF	Code	Pos ID	Pos Type	
0700		2244		CD	CD	
2245	JN	2245	С			
2246		0659		CD	CD	
		1		}		
		-				

		POSITION	LOG			
Fac ID: SFO Pos ID: CC			Log Date: Pos Type:	7/6/2013 CC		
TIME	Initials	TIME OFF	Code	Where Combined To:		
ON				Pos ID	Pos Type	
0700		1546		os/cic	sc	
1547	JH	1624	С			
1625		0659		OS/CIC	: SC	
			-			

		POSITIO	N LOG				
	SFO GC1		Log Date Pos Type		7/6/2013 GC		
TIME	1.20.1.	TIME	Code	Where C	Where Combined To:		
ON	Initials	OFF		Pos ID	Pos Type		
0700		1728		GC2	GC		
1729	FN	1812	С				
1813		0659		GC2	GC		
				-			
		-		-	-		
				-			
		-					

	SFO GH	POSITIO	Log Date: Pos Type:	7/6/2013 GH Where Combined To:		
TIME		TIME				
ON	Initials	OFF	Code	Pos ID	Pos Type	
0700		1838		GC2	GC	
1839	FN	1938	С			
1939		2245		GC2	GC	
2246	JN	2337	С			
2338	DH	0049	С	1		
0050	YO	0120	С			
0121		0659		GC2	GC	

SECTION 7.
Facility Layout Chart(s)

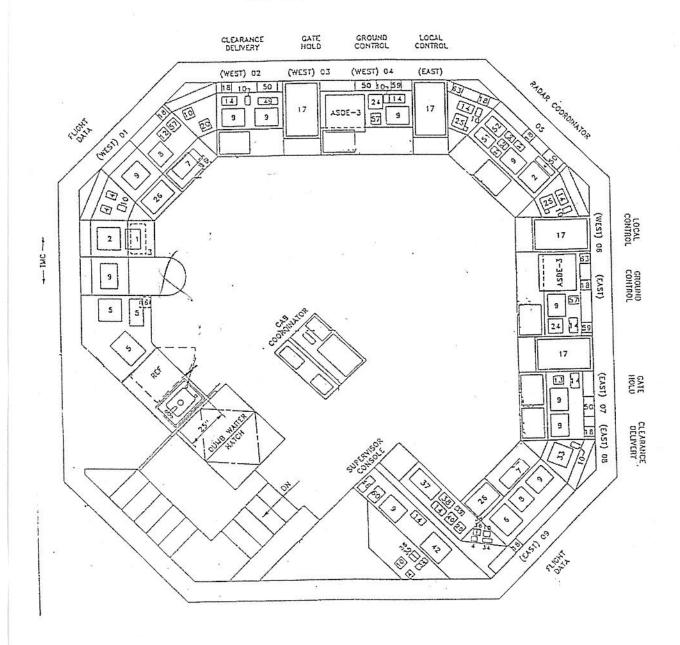


Northern California TRACON Facility Layout Chart Legend

Area A Area		B Area C		Area D		Area E			
Licke	۱L	Coyote	2P	Tracy	3J	Diablo	4D	Tahoe	5T
Hooks	1H	Wiley	2E	Grove	3G	Richmond	4R	Expo	5X
Toga	1T	Foster	2F	Mulford	3M	Sutro	4S	Delta	5D
Seca	18	Woodside	2W	Sunol	3S	Quake	4Q	Elkhorn	5E
Fremont	1F	Laguna	2G	Valley	3Y	Kirkwood	4K	Legacy	8Y
Morgan	lM	Boulder	2B	Castle	3K	Fairfield	4F	Nugget	8N
Turlock 1Q	Niles	2N			Marin	4A	Silver	88	
		Cedar	2Z					Buttes	5B
								Paradise	5P

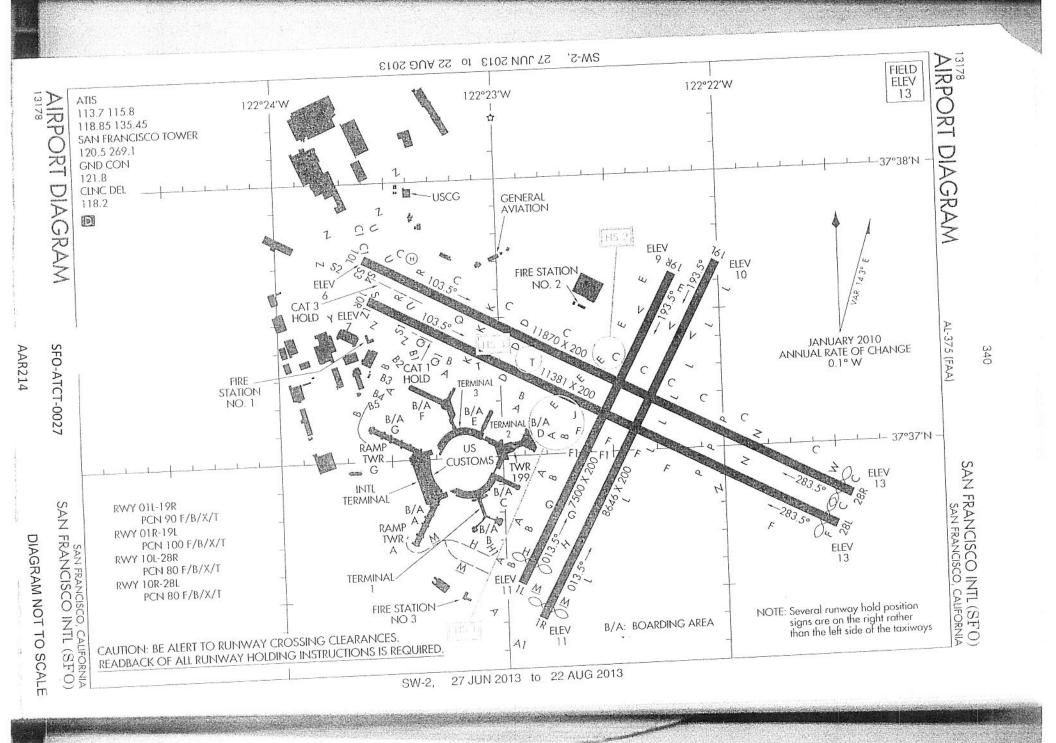
APPENDIX 10. OCCUPANT EMERGENCY PLAN FOR SAN FRANCISCO CONTROL TOWER

FLOOR PLAN - TOWER CAB



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SECTION 8.
Airport Diagram



SECTION 9.
Flight Progress Strip(s) and/or In-Flight Contact Record(s)

Northern California TRACON

AAR214	4166 A181Ø	IFR		
Ĥ/B772/Q	PYE 294/Ø25			
454	PYE	KSF0	OTCAS II EQUIPPED	

SECTION 10.
Transcription of Voice Recording(s)

SFO-ATCT-0027 AAR214



Memorandum

Date: July 09, 2013

Aircraft Accident File SFO-ATCT-0027 To:

From: Northern California Terminal Radar Approach Control Facility

Subject: INFORMATION: Partial Transcript

Aircraft Accident, AAR214

San Francisco, CA, July 06, 2013

This transcription covers the Northern California Terminal Radar Approach Control Facility (TRACON) 2B AP position for the time period from July 06, 2013, 1806 UTC, to July 06, 2013, 1823 UTC.

Agencies Making Transmissions

Abbreviations

B772, AAR214

AAR214

Northern California TRACON Boulder RADAR

I certify that the following is a true transcription of the recorded conversations pertaining to the subject aircraft accident involving AAR214.



Janette Hardy Support Specialist from Quality Control Northern California TRACON

1806 (1807 - 1810)1811

1811:05 AAR214 norcal approach good morning asiana two one four direct

lozit one one thousand

1811:13 asiana two one four heavy norcal approach depart san 2R

francisco v o r heading one four zero vector visual

approach two eight left

1811:19 AAR214 uh after san francisco heading one four zero visual two

eight left

1811:25 28 uh two eight left affirmative

SFO-ATCT-0027 AAR214

Page 2 of 2		***
1811:27 1812 1813	AAR214	thank you
1813:55	2B	asiana two one four heavy reduce speed to two one zero
1813:57 1814 1815 1816	AAR214	uh speed two one zero asiana two one four
1816:50	2B	asiana two one four heavy descend and maintain niner thousand contact approach one three five point six five good day
1816:57 1817	AAR214	uh descend nine thousand one two five six five asiana two one four good day
1817:03	2B	uh just to verify one tree five point six five
1817:05	AAR214	thirty five sixty five thank you
1817:07 1818 (1819-1822) 1823	2B	thank you have a good day

End of Transcript

Memorandum

Date: July 09, 2013

To: Aircraft Accident File SFO-ATCT-0027

From: Northern California Terminal Radar Approach Control Facility

Subject: INFORMATION: Partial Transcript

Aircraft Accident, AAR214

San Francisco, CA, July 06, 2013

This transcription covers the Northern California Terminal Radar Approach Control Facility (TRACON) 2W AP position for the time period from July 06, 2013, 1812 UTC, to July 06, 2013, 1831 UTC.

Agencies Making Transmissions Abbreviations

B772, AAR214 AAR214
Northern California TRACON Woodside RADAR 2W

I certify that the following is a true transcription of the recorded conversations pertaining to the subject aircraft accident involving AAR214.



Janette Hardy Support Specialist from Quality Control Northern California TRACON

1812 (1813~1816 1817	1	
1817:15	AAR214	approach good morning asiana two one four heading one four zero nine thousand speed of two one zero
1817:21	2W	asiana two one four heavy norcal approach caution wake turbulence you'll be following a heavy boeing triple seven
1817:27 1818 1819	AAR214	roger asiana two one four
1819:25	2W	asiana two one four heavy descend and maintain six thousand turn left heading one zero zero

Page 2 of 2		***
1819:29	AAR214	heading one zero zero descend six thousand asiana two
1820		
1820:57	2₩	asiana two one four heavy descend and main four thousand turn left heading zero three zero
1821:01	AAR214	heading zero three zero descend four thousand asiana two one four
1821:49	2W	asiana two one four heavy san francisco airport nine to ten o'clock one seven miles do you have it in sight
1821:56	AAR214	okay runway in sight
1821:57	2W	asiana two one four heavy turn left heading three one zero cleared visual approach runway two eight left
1822:02 1823	AAR214	heading three one zero cleared visual two eight left asiana two one four
1823:17	2W	asiana two one four heavy reduce speed to one eight zero maintain that to a five mile final there's traffic behind and to the right that does have you in sight
1823:23 1824 1825	AAR214	roger speed one eight zero (unintelligible) final five miles asiana two one four
1825:36	2W	asiana two one four heavy contact san francisco tower one two zero point five
1825:39 1826 (1827-1830) 1831	AAR214	(unintelligible) five asiana two one four good day

End of Transcript

Memorandum

Date: July 09, 2013

To: Aircraft Accident File SFO-ATCT-0027

From: San Francisco Airport Traffic Control Tower

Subject: **INFORMATION**: Full Transcript

Aircraft Accident, AAR214

San Francisco, CA, July 06, 2013

This transcription covers the San Francisco Airport Traffic Control Tower (ATCT) LC LC position for the time period from July 06, 2013, 1815 UTC, to July 06, 2013, 1851 UTC.

Agencies Making Transmissions Abbreviations

Local Control	LC
United 697	UAL697
Delta 1447	DAL1447
United 694	UAL694
Unknown	UNKNOWN
United 870	UAL870
United 397	UAL397
America West 466	AWE466
Skywest 5492	SKW5492
American 1486	AAL1486
Air Canada 761	ACA761
United 885	UAL885
Skywest 6263	SKW6263
All Nippon 8	ANA8
Skywest 5427	SKW5427
N73SF	N73SF
Skywest 6389	SKW6389
Asiana 214	AAR214
United 223	UAL223
Skywest 5452	SKW5452
N737JD	N737JD
Horizon 635	QXE635
SFO Airport Rescue 33	RESCUE33
SFO Airport Rescue 11	RESCUE11
SFO Airport Rescue 10	RESCUE10
SFO Airport MOBILE 101	MOBIL101
SFO Airport Rescue 37	RESCUE37
SFO Airport Mobile 244	MOBIL244
SFO Airport Rescue 88	RESCUE88
Alaska 244	ASA244

I certify that the following is a true transcription of the recorded conversations pertaining to the subject aircraft accident involving AAR214.

Page 2 of 15



Andy Richards Air Traffic Manager San Francisco ATCT

1815 (1816-1819)		
1820 1820:31	LC	united six ninety seven what's your gate
1820:33	UAL697	ninety three
1820:35	LC	united six ninety seven roll down to quebec hold short runway two eight left
1820:38	UAL697	hold uh short of two eight left on quebec united six ninety seven
1820:42	LC	delta fourteen forty seven no delay traffic's approaching a two mile final one right wind one eight zero at seven cleared for take off
1820:47	DAL1447	one right one right cleared for take off delta fourteen forty seven
1820:51	UAL694	san francisco tower united six ninety four two miles outside of tango two eight right
1820:56	LC	united six ninety four san francisco tower runway two eight right cleared to land
1820:59 1821	UAL694	two eight right cleared to land two eight right united six ninety four
1821:02	LC	united three ninety seven cross runway two eight left contact ground point eight
1821:07	UAL697	(unintelligible) cross two eight left and over to ground united (unintelligible)
1821:09	LC	united eight seventy heavy turn left at uh quebec

Page 3 of 15

contact	around	on	noint	eiaht
COLLCACE	91 Carra	OII	POTITO	CIGIL

1821:14	UNKNOWN	blocked
1821:16	LC	united eight seventy heavy turn left at quebec contact ground point eight
1821:19	UAL870	quebec ground point eight united eight seventy heavy
1821:22	LC	united six ninety seven give way to your company there exiting at quebec cross runway two eight left and contact ground on point eight
1821:29	UAL697	cross two eight left and over to ground united six ninety seven thanks
1821:32	LC	united three ninety seven at taxiway delta cross runway two eight left contact ground on point eight
1821:36	UAL397	cleared to cross uh two eight left delta ground point eight and we were stepped on three ninety seven
1821:41	LC	okay no problem
1821:42	UNKNOWN	it's my fault
1821:44	LC	cactus four sixty six san francisco tower runway one right line up and wait traffic's landing westbound
1821:48	AWE466	line up and wait one right cactus four sixty six
1821:51	LC	delta fourteen forty seven contact norcal departure see ya
1821:54	DAL1447	going to departure see ya later delta fourteen forty seven
1822:00	SKW5492	skywest fifty four ninety two two eight left
1822:02	LC	skywest fifty four ninety two san francisco tower runway two eight left cleared to land caution wake turbulence

Page 4 of 15 ...

		seven five seven off your right hand side for the parallel
1822:08	SKW5492	cleared to land two eight left skywest fifty four ninety two
1822:21	LC	cactus four sixty six take it uh on the roll runway one right cleared for take off
1822:26	AWE466	all right we'll keep it rolling and cleared for takeoff one right cactus four sixty six
1822:30	LC	american fouteen eighty six san francisco tower runway one right line up and wait traffic will land westbound
1822:34	AAL1486	one right line up and wait american fourteen eighty six
1822:38	LC	air canada seven sixty one keep it rolling across runway two eight left contact ground on one two one point eight traffic three mile final
1822:44 1823	ACA761	(unintelligible) to cross twenty eight left for air canada seven sixty one
1823:09	LC	united eight eight five heavy san francisco tower cross runway one left runway one right hold short of two eight left traffic in position on one right
1823:17	UAL885	uh cross one left one right to two eight left united eight eight five
1823:22	LC	cactus four sixty six contact norcal departure good day
1823:25	AWE466	cactus four sixty six so long
1823:43	LC	air canada seven six one contact ground on point eight
1823:59 1824	SKW6263	tower skywest sixty two sixty three uh inside the bridge two eight right
1824:03	LC	skywest sixty two sixty three san francisco tower runway two eight right cleared to land caution wake turbulence

Page 5 of 15 ***

ನೆ		
		seven five seven just landed your runway and heavy triple seven off your left hand side for the parallel
1824:14	SKW6263	all right cleared to land two eight right skywest sixty two sixty three
1824:21	ANA8	san francisco tower all nippon eight heavy on final two eight left
1824:27	LC	american fourteen eighty six no delay traffic's on a two and a half mile final wind one nine zero at seven runway one right cleared for take off
1824:34	AAL1486	cleared for take off one right american fourteen eighty six
1824:36	LC	all nippon eight heavy san francisco tower runway two eight left cleared to land
1824:39	ANA8	two eight left cleared to land all nippon eight heavy
1824:42	LC	skywest fifty four ninety two contact ground point eight
1824:45	SKW5492	point eight skywest fifty four ninety two
1824:47	LC	united six ninety four hold short runway two eight left
1824:50	UAL694	hold short two eight left united six ninety four
1824:52	LC	skywest fifty four twenty seven san francisco tower runway one right line up and wait
1824:57	SKW5427	line up and wait on one right skywest fifty four twenty seven
1825:00	N73SF	tower helicopter seven three sierra foxtrot gap departure
1825:06	LC	helicopter seven three sierra foxtrot uh san francisco tower gap departure approved squawk zero three six three

Page 6 of 1	.5	***
1825:14	N73SF	and tower you're breaking up three sierra foxtrot
1825:17	LC	copter three sierra foxtrot gap departure approved do not overfly the heavy seven four seven under tow
1825:25	SKW6389	hey tower skywest sixty three eighty nine coming up on the bridge for the right
1825:28	LC	skywest sixty three eighty nine san francisco tower runway two eight right cleared to land caution wake turbulence heavy triple seven ahead to your left for the parallel
1825:37	LC	american fourteen eighty six contact norcal departure
1825:40	AAL1486	american fourteen eighty six
1825:44	LC	skywest sixty three eighty nine san francisco tower runway two eight right cleared to land caution wake turbulence heavy triple seven over the bridge for the parallel
1825:52	SKW6389	cleared to land two eight right the traffic's in sight skywest sixty three eighty nine
1825:56 1826	AAR214	good morning asiana two one four final seven miles south two eight left
1826:02	LC	skywest fifty four twenty seven hold in position taxi up to the power point on departure fly heading of uh zero one zero
1826:12	N73SF	tower helicopter seven three sierra foxtrot gap departure
1826:15	LC	helicopter seven three sierra foxtrot san francisco tower gap departure approved squawk zero three six three
1826:22	N73SF	zero three six three gap three sierra foxtrot
1826:24	LC	skywest fifty four twenty seven on departure fly heading zero one zero runway one right cleared for take off without delay

1826:30	SKW5427	take off without delay skywest fifty four twenty seven
1826:32	LC	united two twenty three san francisco tower runway one right line up and wait and we might be able to get you out this hole
1826:38	UAL223	line up and wait runway one right united two twenty three
1826:41	LC	all nippon eight heavy contact ground point eight
1826:43	ANA8	point eight all nippon eight heavy
1826:46	LC	skywest sixty two sixty three hold short runway two eight left
1826:50	SKW6263	short two eight left skywest sixty two sixty three
1826:52	LC	united two twenty three just hold in position you'll be in the next hole
1826:55	UAL223	sounds good united two twenty three hold in position uh one right
1826:59 I	AAR214	tower asiana two one four short final
1827:08	LC	asiana two one four heavy san francisco tower runway two eight left cleared to land
1827:10	AAR214	cleared to land two eight left asiana two one four
1827:13	LC	skywest fifty four twenty seven fly runway heading and contact norcal departure
1827:17	SKW5427	going to departure skywest fifty four twenty seven good day
1827:21	UAL885	tower united eight eight five
1827:23	LC	united eight five uh tower

rage o or is		
1827:26 UA		united eight eight five at the end uh we might need a few more minutes just a heads up
1827:30 LC		united eight eight five roger hold uh short of two eight left let me know when you're ready
1827:34 UA	AL885	two eight left united eight eighty five
1827:36 SK		san francisco tower skywest fifty four fifty two uh quiet bridge visual two eight right
1827:40 LC		skywest fifty four fifty two san francisco tower runway two eight right cleared to land
1827:45 SK		cleared to land two eight right skywest fifty four fifty two
1827:54 LC		copter three sierra foxtrot radar contact passing six hundred
1827:58 N7 1828	73SF	six hundred three sierra foxtrot
1828:08 LC		skywest sixty three eighty nine go around
1828:10 SK	KW6389	go around skywest sixty three eighty nine
1828:11 UN		(unintelligible) one thousand five hundred feet over san carlos
1828:14 LC		skywest sixty three eighty nine fly heading two eight zero maintain three thousand
1828:18 SK	(W6389	zero three thousand skywest sixty three eighty nine
1828:26 AA	AR214	uh tower tower asiana two one four
1828:29 LC		asiana two fourteen heavy emergency vehicles are responding
1828:33 AA	AR214	asiana two one four

Page 9 of 1	.5	Lette.
1828:35	LC	emergency vehicles are responding
1828:38	AAR214	uh uh (unintelligible) uh asiana (unintelligible)
1828:45	LC	cessna seven three seven juliet delta san francisco tower remain clear of the san francisco bravo airspace contact san carlos tower
1828:51	N737JD	seven juliet delta contacting san carlos tower and uh will remain clear
1828:57	LC	cessna helicopter three sierra foxtrot leaving the bravo airspace in two miles radar service terminated squawk maintain v f r frequency change approved
1829		
1829:03	UNKNOWN	please show all runways closed for the time being please
1829:06	LC	all runways are closed the airport is closed san francisco tower
1829:10	UNKNOWN	roger that
1829:11	LC	horizon six thirty five san francisco tower
1829:15	AAR214	tower two one four
1829:16	LC	asiana two fourteen heavy san francisco tower
1829:18	AAR214	(unintelligible)
1829:23	QXE635	horizon six thirty five's going around
1829:24	LC	horizon six thirty five fly heading two six five maintain three thousand one hundred
1829:28	QXE635	two six five three thousand one hundred horizon six thirty five
1829:32	AAR214	(unintelligible)

rage II OI	13	***
1830:30	SKW6389	good day
1830:42	RESCUE33	san francisco tower rescue three three on mike to cross one left one right
1830:47	LC	rescue three three san francisco tower proceed to the scene cross all active runways
1830:50	RESCUE11	san francisco tower rescue eleven is crossing with rescue three three one left one right
1830:57 1831	LC	rescue eleven san francisco tower proceed as requested cross all runways
1831:33	RESCUE33	san francisco tower rescue three three and rescue eleven clear of the ones
1831:37	LC	rescue three rescue eleven roger
1831:41	LC	the rescue vehicle at taxiway foxtrot san francisco tower
1831:46	RESCUE10	san francisco tower this is rescue ten at foxtrot to cross one left one right
1831:49	LC	rescue ten san francisco tower cross runway one left cross runway one right
1831:53 1832	RESCUE10	rescue ten crossing one left crossing one right
1833 1833:39	UAL885	tower united eight eight five
1833:40	LC	say again
1833:43	UAL885	tower this is united eight eight five we are holding short of two eight left uh we see people and i think that we should uh (unintelligible) immediate attention they are alive and walking around
1833:53	LC	united eight eight five heavy roger

Page 12 of	15	
1833:58	LC	i think you said you said uh people are just walking
1834		outside the airplane right now
1834:01	UAL885	yeah uh some uh some people (unintelligible) look like they're struggling
1834:05	LC	roger we have emergency vehicles responding
1834:07	UAL885	uh thank you
1834:16	UAL885	right out near the two eight right number on the uh right side of the runway
1834:23	LC	roger you are reporting a person at the uh two eight right numbers
1834:27	UAL885	excuse me the two eight left numbers between the runways there are people right right uh adjacent to the numbers i we can see about two or three people that are moving and uh and uh apparently survived
1834:36	LC	roger
1834:50	MOBIL101	and tower mobile one oh one on foxtrot to cross one left one right
1834:53	LC	mobile one zero one san francisco tower cross runway one left cross runway one right
1834:57	MOBIL101	cross one left runway one right mobile one oh one and company
1835		Company
1835:22	MOBIL101	tower mobile one oh one and company clear of the ones
1835:28 1836	LC	mobile one zero one and company roger
1836:29	LC	down so all right status is current everything is shut down no transitions no traffic uh lighting is on radar alignment's with oakland west end is uh ours which we're not doing anything with right now (unintelligible) asiana two fourteen heavy's on two eight left he's got everything deployed over there we got multiple rescue vehicles everybody's coming out we already rang i don't

Page 13 of 15 ...

1837		have any of their call signs but they're all out over there i just i gave them a blanket thing to go to the crash scene blanket thing to go to the crash scene alright yup loaded on one right short of two eight left short of two eight left i haven't done anything with anyone okay
1837:07	RESCUE37	san francisco tower this is uh rescue thrity seven permission to cross nineteen right nineteen left on charlie
1837:18	LC	rescue thirty company crossing ones alright okay got it
1837:20	RESCUE37	uh it's carbon uh crossing the ones
1837:24 1838	LC	you got everything got it you good okay alright
1838:02	RESCUE37	tower this is uh rescue thirty seven permission to cross at papa permission to cross two eight right two eight left
1838:11	LC	rescue thirty seven approved
1838:14	RESCUE37	rescue thirty seven crossing two eights
1838:18	LC	rescue thirty seven cross the two eights proceed to the incident
1838:24	MOBIL244	tower mobile two four four uh and the spots to cross uh two eight right
1838:29	LC	mobile two four four and company cross two eight right
1838:31 1839 (1840-1841)	MOBIL244	two eight right at papa two four four and company
1842 1842:36	RESCUE88	uh san francisco tower this is rescue eighty eight confirm that i'm uh i'm clear to cross runways
1842:42	LC	rescue eighty eight field is yours
1842:44	RESCUE88	uh copy that eighty eight

Page 14 of 15				
1843 1844 1844:39	UAL223	and tower united two two three		
1844:46	LC	united two two three		
1844:47	UAL223	permission to shut down the engines here		
1844:49	LC	yeah i recommend everybody out there shut down the engines we'll give all about a ten minute heads up if we're gonna be able to get departures out off the ones but we're trying uh focusing on the issue right now uh sorry about that if united six ninety four and sixty two sixty three skywest we're uh trying to work on approval to get you guys across but we need that from the city right now		
1845		right non		
1845:07	SKW6263	skywest sixty two skywest sixty two sixty three uh we understand we'll hold short and uh we'll wait as long as it takes		
1845:15	LC	yeah that's fine i wouldn't uh shut yours down though because if i can get you across and out of the way i am definitely going to we're but working that out with the city right now		
1845:22	SKW6263	we'll keep (unintelligible) monitoring		
1845:24	LC	okay for united two uh correction six ninety four we'll let you know		
1845:27	UAL694	roger		
1845:29	ASA244	uh tower for alaska two forty four number three at one right we'd like to go back to the gate when we can work it out		
1845:35	LC	alaska two forty four roger that um we'll work that out uh in the meantime i would suggest you shut them down or at least shut one down to save some out there um because it's going to be a while before i can get anybody back to the gates		
1845:46	ASA244	not a problem we'll shut em down thanks		

SFO-ATCT-0027 AAR214

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1845:48 LC thanks 1846 (1847-1850) 1851

End of Transcript



Memorandum

Date: August 01, 2013

To: Aircraft Accident File SFO-ATCT-0027

From: San Francisco Airport Traffic Control Tower

Subject: INFORMATION: Partial Transcript

Aircraft Accident, AAR214

San Francisco, CA, July 06, 2013

This transcription covers the San Francisco Airport Traffic Control Tower (ATCT) GC2 GC position for the time period from July 06, 2013, 1823 UTC, to July 06, 2013, 1842 UTC.

Agencies Making Transmissions Abbreviations

Ground Control GC Frontier 830 FFT830 United 893 UAL893

I certify that the following is a true transcription of the recorded conversations pertaining to the subject aircraft accident involving AAR214.

Andy Richards Air Traffic Manager

San Francisco ATCT

1823

(1824 - 1827)

1828

1828:04 GC everybody calling stand by do not taxi frontier eight

thirty hold your position

1828:10 FFT830 hold position frontier eight thirty

1828:39 GC everybody on frequency stand by do not call

1829

1829:08 GC everybody do not call ground just stand by do not call

1830 1831

1831:05 GC we're stopping all departures the airport's closed 1 x

1832

1832:47	GC	everybody call on ground it's gonna be a while just hold your position and do not acknowledge
1833		your position and do not acknowledge
1833:19	GC	all right status is uh up to date the airport's closed due to accident weather is v f r landings appropriate verifying with oakland west end we have obviously we're not doing anything with it at this time you're two eights and ones and traffic um everyone's holding got a uh aircraft at the right other than that we are not moving with anything and i think people are coming out now
1833:56	GC	i missed what he said um but yeah everything's taken care of for now (unintelligible)
1834		
1834:52 1835	GC	is there any rescue vehicles on ground frequency there's aircraft or there's people at the approach end that need help at the uh numbers of the approach of runway two eight
1836 1836:06	UAL893	uh ground united eight nine three
1836:07	GC	united eight ninety three go ahead
1836:09	UAL893	are there any airport restrictions to taxiing right now
1836:12	GC	united eight ninety three where are you at
1836:14	UAL893	uh we're at uh ninety four
1836:16	GC	yeah the airport is closed for an accident so it's gonna be a while
1836:23	UAL893	uh can you describe the accident to us
1836:26	GC	no just uh don't transmit anymore if you have any questions call your company
1837 (1838-1841) 1842		

Memorandum

Date: July 31, 2013

To: Aircraft Accident File SFO-ATCT-0027

From: San Francisco Airport Traffic Control Tower

Subject: **INFORMATION**: Partial Transcript

Aircraft Accident, AAR214

San Francisco, CA, July 06, 2013

This transcription covers the San Francisco Airport Traffic Control Tower (ATCT) CD CD position for the time period from July 06, 2013, 1823 UTC, to July 06, 2013, 1835 UTC.

Agencies Making Transmissions Abbreviations

NCT Woodside Sector WOODSIDE Clearance Delivery CD San Carlos ATCT SQL

I certify that the following is a true transcription of the recorded conversations pertaining to the subject aircraft accident involving AAR214.

Andy Richards

Y

Air Traffic Manager San Francisco ATCT

1823

(1824 - 1827)

1828

1828:44 WOODSIDE this is woodside

1828:46 CD san francisco plan to send everyone uh we had an

aircraft mishap two eight left is closed

1828:50 WOODSIDE okay you just want us to send everybody everybody around

(unintelligible)

1828:56 CD all right p z

1829

1829:34 CD line clear

Page 2 of 2			٠
1829:40	SQL	san carlos	
1829:41	CD	san francisco no transitions until further advised uh aircraft mishap on runway two eight left	
1829:46	SQL	okay you gonna give me uh seven zulu delta back	
1829:49	CD	um	
1829:50	SQL	yeah i'll just take him back no worries	
1829:51 1830 (1831-1834) 1835	CD	yeah just take him back keep him clear of the bravo p	Z

End of Transcript

SECTION 11.

FAA Form(s) 8020-3, Facility Accident/Incident Notification Record



FACILITY ACCIDENT/INCIDENT NOTIFICATION RECORD

/	Aircraft Identification
1	JAR 214
I	Date 1
	116113
1	Airport
	KSGO

The order and number of call will be determined by the situation involved.			V	
			Initi	als
	Phone No.	Time	Caller	Recipient
Airport Emergency Equipment		18282		
Additional Emergency Equipment		1835	Comm ct	2
Search and Rescue - COAST GUARD		1840		
*Washington Operations Center (WOC)				
Region Operations Center (ROC)		1853	Rh	
Domestic Events Network (DEN)		1840	Rh	
Air Traffic Manager		1838	MN	
Flight Standards District Office (FSDO)				
System Safety Investigations				
National Transportation Safety Board (NTSB)				
System Maintenance Organization Manager				
Law Enforcement		1835	Comm c	R
National Weather Service (NWS)		1945	Ph	
Military Authority				
Airport Authority		1328	MN	
Aircraft Operator				
Operational Control Center (OCC)				
,				
	The state of the s			Salling Constitution of States
		No.		
				19
P.				
1				
Form Updated by (Name, Title, Facility): SATCS ROLF KN	AACL S	FO ATO		Date: 7/6/1

* Accidents requiring telephone notification to Washington shall be made immediately following notification for emergency equipment and/or search and rescue. FAA Form 8020-3 (12-10) Supersedes Previous Edition

SECTION 12.
FAA Form(s) 8020-26, Personnel Statement

DEPARTMENT OF TR		1 Name of Reporting Facility Northern California TRACON 2 Report Number SFO-ATCT-0027	
PERSONNEL S' Location of Accelent Institute Location of Accelent Institute Personnel Accelent	TATEMENT		14, 8772
San Francisco,	CA	5 Date Time of Academ Incident (CT July 06, 20	13, 1828 UTC
Same (Operating Entitle) Bryan Friedline (8F) Complete in accordance with	7 Tel: ATCS	6	a usl Time(UTC) 2B AP 1730-1823 UTC cident and Incident Notification,
provide any facts within your person surrounding this accident/ incident, included in this statement. This stat activities including pretrial discovery signed by you, and your signature b	Speculations, hearsay, opini tement may be released to the depositions, and actual cou- elow certifies the accuracy of	ons, conclusions, and/or other e public through the Freedon of testimony. This statement	er extraneous data are not to be n of Information Act or litigation is to be band printed and
signed, will constitute your original s	tatement.		
signed, will constitute your original s	talement.		SUPPLEMENTAL
signed, will constitute your original s	COMMENT E		
signed, will constitute your original s	talement.	□ ORIGINAL □	
signed, will constitute your original s	talement.	□ ORIGINAL □	
signed, will constitute your original s	talement.	□ ORIGINAL □	
signed, will constitute your original s	talement.	□ ORIGINAL □	

DEPARTMENT OF TRANSPORTATION	1 Name of Reporting Facility	2 Regent Number
FEDERAL AVIATION ADMINISTRATION	Northern California TRACON	SFO-ATCT-0027
PERSONNEL STATEMENT	5 Aircraft Identification and Type AAR214,	B772
2 Location of Accident bresleut	5 Date Time of Accident-Incident (UTC)	
San Francisco, CA	July 06, 2013,	1828 UTC
6 Nure (Operating fittinglist 7 Table	8 Position an	f Enre (UTC)
Shane Evanshine (UC) ATCS	2W	AP 1810-1856 UTC
9. Complete in accordance with FAA Order 8020.16, Air Traff Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, F provide any facts within your personal knowledge that will provide surrounding this accident/ incident. Speculations, hearsay, opinior included in this statement. This statement may be released to the activities including pretrial discovery, depositions, and actual court signed by you, and your signature below certifies the accuracy of the signed, will constitute your original statement.	Personnel Statements. The pura complete understanding of the ns, conclusions, and/or other expublic through the Freedom of testimony. This statement is this statement. It will neither be	rpose of this statement is to the circumstances extraneous data are not to be if Information Act or litigation to be hand printed and the edited nor typed and, once
10. TEXT OF STATEMENT:	☑ ORIGINAL ☐ SU	JPPLEMENTAL
		onerse on en statut de la transportation de la Colombia de Colombi
☐ COMMENT ☑	NO COMMENT	
COMMENT B	TO COMMENT	
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11 Stendard of Waters 7 7. 7	Con a se	
The second section of the second seco	12 Date of Signature f	

FAA Form 9023-26 (12-10)

DEPARTMENT OF T	ADMINISTRATION	NAME OF REPORTING FACILITY ATCT AIRCRAFT IDENTIFICATION AN	S+0-ATCT-0027
PERSONNEL S	STATEMENT	JAARZIH BT	172
4. LOCATION OF ACCIDENT/INCIDENT:	DATE/TIME OF ACCIDE	NT/INCIDENT (UTC): 6. E	QUIPMENT ATTACHMENT:
San Francisco.	, CA July 06,	2\$13 1828 UTC	□ YES □ NO
7. NAME (OPERATING INITIALS):	8. TITLE:	9. P	OSITION AND TIME (UTC):
Joseph Y Okuda (JH) ATCS	Lo	cal LC 1716-1835 UTC
COMPLETE IN ACCORDAN	ICE WITH FAA ORDER 8020.1	6, AIR TRAFFIC ORGANIZATI	ON, AIRCRAFT ACCIDENT AND
			8020-XX, PERSONNEL STATEMENTS.
			KNOWI EDGE THAT WILL DROVIDE

HEARSAY, OPINIONS, CONCLUSIONS, AND/OR OTHER EXTRANEOUS DATA ARE NOT TO BE INCLUDED IN THIS STATEMENT. THIS STATEMENT MAY BE RELEASED TO THE PUBLIC THROUGH THE FREEDOM OF INFORMATION ACT OR LITIGATION ACTIVITIES INCLUDING PRETRIAL DISCOVERY, DEPOSITIONS, AND ACTUAL COURT TESTIMONY. THIS STATEMENT IS TO BE HAND PRINTED AND SIGNED BY YOU, AND YOUR SIGNATURE BELOW CERTIFIES THE ACCURACY OF THIS STATEMENT. IT

WILL NEITHER BE EDITED NOR TYPED AND, ONCE SIGNED, WILL CONSTITUTE YOUR ORIGINAL STATEMENT.

11. TEXT OF STATEMENT: ☑ ORIGINAL ☐ SUPPLEMENTAL At the time of the accident I was working local control. I was instructing a developmental. To the best of my recollection this is the events of that day. It was a normal operation up to the point of the accident. AARZIH was cleared to land on RWY 28 L at approximately a 2 mile final AARZI4's approach appeared normal and I didn't observe any abnormalities. There was no indication of a low altitude alert. I scanned down Rwy 28L to verify it was clear, I was also scanning multiple points in the airport environment to insure other aircraft were safe and complying with their instructions, This included aircraft on landing/departure rolls, aircraft on the upwind, aircraft holding short, aircraft that had exited the runways, aircraft awaiting to depart, as well as other responsibilities of working local control. I observed what appeared to be a large cloud of dust within the vicinity of RWY28L and determined there was a crash. At that point training was suspended. I took over the local frequency from the developmental. I sent aircraft around and sanifized SFO's airspace. I responded to emergency response vehicles to aid AAR214. This included clearing them to cross active runways and closing the airport.

12. SIGNATURE OF WITNESS:	13. DATE OF SIGNATURE:	
	July 9, 2013	

1. Name of Reporting Facility: 2. Report Number: DEPARTMENT OF TRANSPORTATION San Francisco ATCT SFO-ATCT-0027 FEDERAL AVIATION ADMINISTRATION 3. Aircraft Identification and Type: PERSONNEL STATEMENT AAR214, B772 4. Location of Accident/Incident: 5. Date/Time of Accident/Incident (UTC): San Francisco, CA July 06, 2013, 1828 UTC 6. Name (Operating Initials): 7. Title: 8. Position and Time (UTC): Russell Kipker (KP) LC LC 1718-1831 UTC **ATCS** Complete in accordance with FAA Order 8020.16, Air Traffic Organization, Aircraft Accident and Incident Notification, Investigation, and Reporting, Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this statement is to provide any facts within your personal knowledge that will provide a complete understanding of the circumstances surrounding this accident/ incident. Speculations, hearsay, opinions, conclusions, and/or other extraneous data are not to be included in this statement. This statement may be released to the public through the Freedom of Information Act or litigation activities including pretrial discovery, depositions, and actual court testimony. This statement is to be hand printed and signed by you, and your signature below certifies the accuracy of this statement. It will neither be edited nor typed and, once signed, will constitute your original statement. ☑ ORIGINAL ☐ SUPPLEMENTAL 10. TEXT OF STATEMENT: ☐ COMMENT NO COMMENT

FAA Form 8020-26 (12-10)

11. Signature of Witness:

DEPARTMENT OF TRANSPORTATION	Name of Reporting Facility: Report Number:								
FEDERAL AVIATION ADMINISTRATION	SFO ATCT SFO-ATCT-602								
PERSONNEL STATEMENT	3. Aircraft Identification and Type: AAR 214 B772								
Location of Accident/Incident:	Date/Time of Accident/Incident (UTC):								
San Francisco, CA	July 6, 2013 1828 UTC								
6, Name (Operating Initials): Alexis M. Shirkey (LX) 7. Title: ATC	8. Position and Time (UTC):								
complete understanding of the circumstances surrounding this accident/ incident not to be included in this statement. This statement may be released to the public	statement is to provide any facts within your personal knowledge that will provide a speculations, hearsay, opinions, conclusions, and/or other extraneous data are ic through The Freedom of Information Act or litigation activities including pretrial printed and signed by you, and your signature below certifies the accuracy of this								
10. Text of Statement:	☑ ORIGINAL □ SUPPLEMENTAL								
☑ COMMENT	□ NO COMMENT								
	vas working local assist. To the								
best of my recollection these	are the events pertinent to my								
position associated with t	he incident. I was monitoring								
the local controlle's trans									
coordinating instructions gi									
	ties. I was veeifying charances								
The state of the s	al controller, including a hold								
1 10 10 10 10 10 10 10 10 10 10 10 10 10	zit cleaeance for United aiecraft								
Theaed the Runway 281 chare									
	controller issue a United aleceoft								
	watching the United ajeceaft								
to ensure the hold short insta	zuction. I looked up to ensure								
a departing Skywest alecrate	t was flying Runway heading								
as instructed and heard th	e LC make an exclamation								
that drew my attention to	DE 11 DERVER à large								
cloud or dust and an airce	and the It is an account								
crashed on Rummay 28L. I hea	Listalia assistanti								
instructions the okwisses an	d immediately coordinated								
the go acound with the NCI	departure controller advising								
advises the to end I all sie	edinated with the NCT Anal conteolle								
I continued with the differ of 1-	ceapt acound, due to an accident								
to the accident and Cleaning	of the airspace.								
	Taxof San Debit Control								

 11. Signature of Witness:
 12. Date of Signature:

 7 | 12 | 13

FAA Form 8020-26 (12-10) Supersedes Previous Edition

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	1. Name of Reporting Facility: 2. Report Number: SF0-ATCT-0027
PERSONNEL STATEMENT	3. Aircraft Identification and Type: AAR214 B772
4. Location of Accident/Incident: San Francisco, CA	5. Date/Time of Accident/Incident (UTC): July 66, 2013, 1828 UTC
6. Name (Operating Initials): Peter Sachs (PZ) 7. Title: A TCS	8. Position and Time (UTC): CD 1803-1911 UTC
9. Complete in accordance with FAA Order JO 8020.16, Air Traffic Organization Air Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this stat complete understanding of the circumstances surrounding this accident/ incident. So not to be included in this statement. This statement may be released to the public the discovery, depositions, and actual court testimony. This statement is to be hand pristatement. It will neither be edited nor typed and, once signed, will constitute your or the properties of the properties.	tement is to provide any facts within your personal knowledge that will provide a Speculations, hearsay, opinions, conclusions, and/or other extraneous data are brough The Freedom of Information Act or litigation activities including pretrial nted and signed by you, and your signature below certifies the accuracy of this
10. Text of Statement:	ORIGINAL SUPPLEMENTAL
an aircraft mishap on 28L, and they had just given us. I continued as needed.	events leading up to and immediately invites prior to the incident, there invites prior to the incident, there PDC system and I was actively he aircraft via the PDC. Associated required stripmarking for each route to ensure it was appropriate. I heard ip to the ground controller. I heard iller and Ivoked up. I observed an dealing colled woodside and notified them could because the airport is to advise them that we would isons until further advised due to take back the aircraft that
11. Signature of Witness:	12. Date of Signature: 7/12/23/3

FAA Form 8020-26 (12-10) Supersedes Previous Edition

DEPARTMENT OF TRANSPORTATION	Name of Reporting Facility:	2. Report Number:
FEDERAL AVIATION ADMINISTRATION	SFO ATCT	SFO-ATCT-DOZ
PERSONNEL STATEMENT	3. Aircraft Identification and Type: AAR214	B772
Location of Accident/Incident: SAN FRANCISCO, CA	5. Date/Time of Accident/Incident July 6,24/3	(UTC): 1828 UTC
Name (Operating Initials): DAWN MEMULLIN (MN) 7. Title: ATC	8. Position	and Time (UTC): C 1809 - 1829 \
D. Complete in accordance with FAA Order JO 8020.16, Air Traffic Organization Air Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this state complete understanding of the circumstances surrounding this accident/ incident. So not to be included in this statement. This statement may be released to the public tiliscovery, depositions, and actual court testimony. This statement is to be hand printed the properties of the pr	tement is to provide any facts within you Speculations, hearsay, opinions, conclus hrough The Freedom of Information Act inted and signed by you, and your signa	r personal knowledge that will provide a sions, and/or other extraneous data are or litigation activities including pretrial
0. Text of Statement:	☑ ORIGINAL	□ SUPPLEMENTAL
	NO COMMENT	
At the time of the incident I was monocitive. Le I Lea Positions THESE WERE MY ACTIONS IMMEDIATLY HEARD A SKYWEST RIBERANT CLEARED TO ADVISORY FOR A HEAVEY 777 OVER THE ADVISORY FOR A HEAVEY 777 OVER THE AND WAS WATCHING TO ENSURE HIS CALL IN AND HEARD A CLEARANCE TO LOCAL CONTROLLER ISSUE A HOLD SHORT MENT THAT DREW MY ATTENTED TO RE THAT HAD JUST CRASHED AND WAS IN THE THAT HAD JUST CRASHED AND WAS IN THE THE AND ALERT 3 CRASH PHO- FIRE DEPT. DOORS HAD ACTIVATED TO RE THEM OF THE ACCIDENT. I TOLD THEM AIR PORT AND THAT BOTH RUNWAYS NEED COORDINATIONS RESPONSE TO THE ACCIDENT	BEFORE AND AFTER THE BEFORE AND AFTER THE BEFORE AND AFTER THE BEFORE TO THE Y FOR AN ADDITIONAL PROMT DEPARTURE. TO LAND RUNWAY 25 TO 38L ("LEARAN" OF 38L ("LEARAN" OF 38L. I OB E PROCESS OF COMING OF AND PUSHED THE BONSE. I LOOSED CUT KNOW MY ALERT HAD THATE	MY RECOLLECTION THE INCIDENT, I E TURBULANCE PARALLEL I HEARD SKYWEST AIRCRAFT I HEARD ASIAND L. I HEARD THE EARD AN UNUSUAL STATE SERVED AN AIRCRAFT TO REST. I IM- TO ENSURE THAT THE GONE OUT. I HEARD IT

11. Signature of Witness:

12. Date of Signature:

7112/13

FAA Form 8020-26 (12-10) Supersedes Previous Edition

DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION	1. Name of Reporting Facility: 2. Report Number: SFO ATCT SFO ATCT-0027
PERSONNEL STATEMENT	3. Aircraft Identification and Type: AAR 2.14 B.7.7.2
	N N 2 1 1 2 2 1 2
4. Location of Accident/Incident: San Francisco, CA	5. Date/Time of Accident/Incident (UTC): July 6, 2013, 1828 UTC
6. Name (Operating Initials): Nicole Findlay (NF) 7. Title: A TCS	8. Position and Time (UTC): GC2 1818-1911 UTC
9. Complete in accordance with FAA Order JO 8020.16, Air Traffic Organization Air Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this stat complete understanding of the circumstances surrounding this accident/ incident. So not to be included in this statement. This statement may be released to the public the discovery, depositions, and actual court testimony. This statement is to be hand pristatement. It will neither be edited nor typed and, once signed, will constitute your organization.	tement is to provide any facts within your personal knowledge that will provide a Speculations, hearsay, opinions, conclusions, and/or other extraneous data are hrough The Freedom of Information Act or litigation activities including pretrial inted and signed by you, and your signature below certifies the accuracy of this
10. Text of Statement:	☑ ORIGINAL □ SUPPLEMENTAL
70 74 5 V	NO COMMENT
At the time of the incident To the best of my Knowlege to the incident. In the the incident of the multiple of back clearances. I had a requests such as hold in on the movement area that additionally of was engaged in control such as scanning active runways for aircraft controller say something runway 28L. at observed runway 28L. at observed runway 28L. at observed their position. It made hold their position. It made hold their position. It made that point, at began monit that all could assist my a controller began cleaning reserved.	couple of minutes preceding a vincraft requesting push couple of specialized movement place and at least one vehicle of was not talking to. In the other activities of ground the movement area and the that drew my attention to that an aircraft had yone calling ground standby. I wing and instructed them to multiple transmissions for andrew and do not call. At oning Radar coordinator so
	7/12/13
FAA Form 8020-26 (12-10) Supersedes Previous Edition Electron	ic Version

SFO-ATCT-0027 AAR214

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DEPARTMENT OF TRANSPORTATION	1. Name of Reporting I	1787 L L L L L L L L L L L L L L L L L L						
FEDERAL AVIATION ADMINISTRATION	SFO ATCT SFO-ATCT-002 3. Aircraft Identification and Type:							
PERSONNEL STATEMENT	AAR214, B772							
4. Location of Accident/Incident: San Francisco, CA	5. Date/Time of Accident/Incident (UTC): July 6, 2013 1828 UTC							
6, Name (Operating Initials): Rolf Knaack (RK) 7. Title: SAT		8. Position and Time (UTC): OS/CIC 1830-1917 UTC						
9. Complete in accordance with FAA Order JO 8020.16, Air Traffic Organization Ai Paragraph 91, FAA Form 8020-26, Personnel Statements. The purpose of this state complete understanding of the circumstances surrounding this accident/ incident. So not to be included in this statement. This statement may be released to the public the discovery, depositions, and actual court testimony. This statement is to be hand pristatement. It will neither be edited nor typed and, once signed, will constitute your constitute.	ement is to provide any fac ipeculations, hearsay, opini nrough The Freedom of Info nted and signed by you, an	cts within your personal knowledge that will provide a lions, conclusions, and/or other extraneous data are formation Act or litigation activities including pretrial						
10. Text of Statement:	☑ ORIGIN	NAL SUPPLEMENTAL						
☑ COMMENT □	NO COMMENT							
The facility quard alerted n	ne to the	AARZIY accident as						
The facility guard alerted of I exited the news restroom on the	e 5th Plank	. I Looked out						
our office window and observed	AAR 214 LY	ing in the grass						
South of Ry 28 L New the touchdo	WN ZONC; C	as I was waiting						
for the elevator. I ran up	to the tow	ver after exiting						
the elevator. I stated to all	personnel +	hat the airport is						
Closed, do not LAND, depart, of I observed airport rescue weh								
AAR 214 with the help of th	e LOCAL COM	sholler. I observed						
passengers exiting the aircra	of and s	cathering in all						
different directions. I then b	egan MAKI	ing Notifications						
and coordinating rescue Pligh	f2'							
1								
5		8.						
11 Signature of Witness:	12. Date of Signature:	A STATE OF THE STA						
	7/12/13							

FAA Form 8020-26 (12/10) Supersedes Previous Edition

SECTION 13. Weather Products KSFO 061456M VRB03KT 10SM FEW010 SCT015 14/10 A2980 RMK AO2 SLP092

T01440100 51006 (SR)

KSFO 061556M 02003KT 10SM FEW012 SCT018 16/11 A2982 RMK AO2 SLP096

T01610106 (SR)

KSFO 061656M VRB06KT 10SM FEW013 SCT018 17/10 A2982 RMK AO2 SLP096

T01670100 (SR)

KSFO 061756M 21006KT 10SM FEW016 18/10 A2982 RMK AO2 SLP097 T01780100

10183 20128 51005 (SR)

KSFO 061856M 21007KT 170V240 10SM FEW016 18/10 A2982 RMK AO2 SLP098

T01830100 (SR)

KSFO 061956M 23004KT 10SM FEW016 19/10 A2981 RMK AO2 SLP095 T01890100

(SR)

KSFO 062056M 08005KT 10SM FEW016 21/11 A2980 RMK AO2 SLP090 T02060106

58007 (SR)

KSFO 062156M VRB06KT 10SM FEW016 22/11 A2978 RMK AO2 SLP085 T02170106

(RM)

I certify the above SFO METAR is an agcurate copy of the original.

Andy Richards

Air Traffic Manager, SFO ATCT

SFO-ATCT-0027 AAR214 U.S. Department of Commerce National Oceanic & Atmospheric Administration

QUALITY CONTROLLED LOCAL CLIMATOLOGICAL DATA (may be updated)

National Climatic Data Center Federal Building 151 Patton Avenue Asheville, North Carolina 28801

HOURLY OBSERVATIONS TABLE SAN FRANCISCO INTERNATIONAL AIRPORT (23234) SAN FRANCISCO, CA (07/2013)

Elevation: 8 ft. above sea level Latitude: 37.619 Longitude: -122.364 Data Version: VER2

Date		Station Type	Sky Conditions	Visibility (SM)	Weather Type	E	Ory Bulb emp	E	Vet Sulb emp	P	ew oint emp	Rel Humd %	Wind Speed (MPH)		Wind Gusts (MPH)	Pressure	Press Tend	Chg	Sea Level Pressure (in. hg)	Report Type	Precip. Total (in)	Alti- meter (in. hg)
1	2	3	4	5	6	7	8	9	10	11	-	13	14	15	16	17	18	19	20	21	22	23
06 06 06 06 06 06 06 06 06 06 06 06 06 0	0056 0156 0256 0256 0456 0556 0856 0856 0856 1156 1256 1356 1556 1656 1756 1856 1856 1856 2056 2156 2256 2254 2354	11 11 11 11 11 11 11 11 11 11 11 11 11	FEW012 FEW012 FEW012 FEW010 SCT013 FEW010 SCT013 FEW010 SCT013 FEW010 SCT015 FEW012 SCT016 FEW013 SCT018 FEW016 FEW016 FEW016 FEW016 FEW016 FEW016 FEW017 FEW017 FEW017 FEW017 FEW017 FEW017 FEW017 FEW007 FE	10.00 10.00	Ţ	56 56 56 56 55 56 66 69 71 69 686 65 56 64 63 57 57 57	13.3 12.8 13.3 14.4 16.1 16.7 17.8 18.3 20.6 20.0 18.5 18.0 17.2 15.6 14.4 13.9 14.0	52 52 52 53 54 56 57 57 59 60 68 68 57 57 57 57 57 57 57 57 57 57 57 57 57	12.0 13.0 13.5 13.7 13.7 14.9 15.3 14.6 13.7 14.0 13.7 14.0 13.2 12.5 12.0 11.8	499 499 499 500 500 500 500 500 500 500 500 500 5	9.4 9.4 9.4	78 78 80 80 75 65 61 59 57 53 49 51 53 57 59 66 63 70 72 78 78	0 7 0 7 3 7 7 8 5	230 240 000 190 190 000 190 VR 210 230 VR 250 250 250 250 250 250 VR 000 VR 230 080 VR 230 080 080 080 080 080 080 080 080 080 0		29.76 29.76 29.76 29.77 29.78 29.78 29.80 29.80 29.80 29.79 29.76 29.76 29.75 29.73 29.73 29.73 29.73 29.73 29.73 29.75 29.78 29.78 29.79			29.78 29.78 29.78 29.78 29.79 29.80 29.81 29.81 29.82 29.82 29.82 29.82 29.78 29.78 29.75 29.75 29.75 29.75 29.76 29.79 29.79 29.80 29.80	AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		29.78 29.78 29.78 29.79 29.80 29.80 29.82 29.82 29.82 29.82 29.82 29.81 29.78 29.75 29.75 29.75 29.75 29.75 29.76 29.77 29.79 29.80 29.80 29.80 29.81

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